

# Histo-Line Laboratories



Innovative life science solutions

## Anatomic Pathology Catalog IHC Diagnostic Applications



Your partner in Histology



## Company

The **Histo-Line Laboratories** were founded in Milan in 1987.



The company has always believed and invested in the quality of products and instruments so as to obtain the certified UNI EN ISO 9001:2008 and 13485:2012.

We are a leading producer and distributor of products and instruments meant for diagnosis and research in: histology, cytology, immunohistochemistry, cellular biology, molecular biology, hematology, veterinary.

Our products' are conceived to satisfy a vast spectrum of human and veterinary research and diagnostic needs.

Our mission is to supply the best technological assistance to researchers in pursuit of excellence.

We supply a vast selection of products and systems, such as Antibodies, DNA probes, automatic and manual revelation systems, reagents and instruments for processing, staining and diagnosis of human and animal tissues.

In an effort to offer an even better service we have recently relocated in V.le Giuseppe di Vittorio, 30 Pantigliate.

We have expanded our previous structure and have created a Conference Center able to host up to 100 people.

We offer a variety of ECM courses as well as courses on the theoretical and practical aspects of the applications of differing methodologies.



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# Immunohistochemistry

## UltraTek

### UltraTek Kits

#### UltraTek HRP

##### Retrieval HRP Anti-Polyvalent Lab Pack

The Retrieval Lab Pack is the optimal kit for the retrieval process. It is designed to provide crisp staining with incubation times of 10 minutes for the Link Antibody and Enzyme Label. The antibodies have been highly purified and specially formulated to assure crisp, clear staining when used in conjunction with each other.

Contains: Citrate Plus, Super Block, Anti-Polyvalent, and HRP

<u>Catalog Number</u>	<u>Volume</u>
RLP015	150 Slides
RLP125	1250 Slides
RLP500	5000 Slides
RLP999	10000 Slides

##### UltraTek HRP Anti-Mouse (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Mouse  
1 x 8ml HRP  
1 x 3ml AEC Chromogen  
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKB080	70 Slides

##### UltraTek HRP Anti-Mouse (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Mouse  
1 x 8ml HRP  
1 x 3ml DAB Chromogen  
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKA080	70 Slides

##### UltraTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block.  
One container of Anti-Mouse.  
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHM125	1250 Slides
UHM500	5000 Slides
UHM999	10000 Slides

##### UltraTek HRP Anti-Mouse Staining System

Contains: 4 x 15ml Super Block  
4 x 15ml Anti-Mouse  
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFJ600	500 Slides

##### UltraTek HRP Anti-Polyvalent (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml HRP  
1 x 3ml AEC Chromogen  
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AMG080	70 Slides

##### UltraTek HRP Anti-Polyvalent (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml HRP  
1 x 3ml DAB Chromogen  
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AMF080	70 Slides

##### UltraTek HRP Anti-Polyvalent Lab Pack

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: One container of Super Block.  
One container of Antipolyvalent.  
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHP125	1250 Slides
UHP500	5000 Slides
UHP999	10000 Slides

##### UltraTek HRP Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block  
4 x 15ml Anti-Polyvalent  
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFN600	500 Slides

**UltraTek HRP Anti-Rabbit (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKD080	70 Slides

**UltraTek HRP Anti-Rabbit (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKC080	70 Slides

**UltraTek HRP Anti-Rabbit Lab Pack**

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Anti-Rabbit, and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

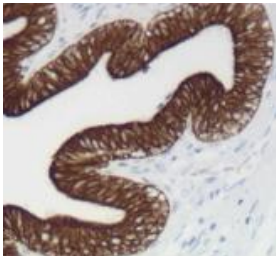
Contains: One container of Super Block.  
 One container of Anti-Rabbit.  
 One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHR125	1250 Slides
UHR500	5000 Slides
UHR999	10000 Slides

**UltraTek HRP Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFK600	500 Slides



UltraTek HRP Anti-Rabbit Lab Pack

**UltraTek Alk-Phos****UltraTek Alk-Phos Anti-Mouse (Fast Red) Staining System**

Species of Origin: Goat  
 Antigen Specificity: Anti-Mouse IgG(H+L)  
 Preadsorbed Against: Human, Bovine, Horse, Rabbit, Swine  
 Enzyme Conjugate: Alkaline Phosphatase  
 Chromogen Substrate: Fast- Red

Uses/Limitations: For Research Use Only.  
 Do not use past expiration date.  
 For immunohistochemical studies.

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AET080	70 Slides

**UltraTek Alk-Phos Anti-Mouse Lab Pack**

Contains: One container of Super Block.  
 One container of Anti-Mouse.  
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAM125	1250 Slides
UAM500	5000 Slides
UAM999	10000 Slides

**UltraTek Alk-Phos Anti-Mouse Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Mouse  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFL600	500 Slides

**UltraTek Alk-Phos Anti-Polyvalent (Fast Red) Staining System**

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AMH080	70 Slides

**UltraTek Alk-Phos Anti-Polyvalent Lab Pack**

Contains: One container of Super Block.  
 One container of Anti-Polyvalent.  
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAP125	1250 Slides
UAP500	5000 Slides
UAP999	10000 Slides

### UltraTek Alk-Phos Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Polyvalent  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFP600	500 Slides

### UltraTek Alk-Phos Anti-Rabbit (Fast Red) Staining System

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AME080	70 Slides

### UltraTek Alk-Phos Anti-Rabbit Lab Pack

Contains: One container of Super Block.  
 One container of Anti-Rabbit.  
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAR125	1250 Slides
UAR500	5000 Slides
UAR999	10000 Slides

### UltraTek Alk-Phos Anti-Rabbit Staining System

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFM600	500 Slides

## UltraTek Individual Reagents

### Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

### UltraTek Alkaline Phosphatase

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABM008	8 ml
ABM015	15 ml
ABM125	125 ml
ABM500	500 ml
ABM999	1000 ml

### UltraTek Anti-Goat

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
AGL008	8 ml
AGL015	15 ml
AGL125	125 ml
AGL250	250 ml

### UltraTek Anti-Mouse

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABJ008	8 ml
ABJ015	15 ml
ABJ125	125 ml
ABJ500	500 ml
ABJ999	1000 ml

### UltraTek Anti-Polyvalent

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABN008	8 ml
ABN015	15 ml
ABN125	125 ml
ABN500	500 ml
ABN999	1000 ml

### UltraTek Anti-Rabbit

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

Catalog Number	Volume
ABK008	8 ml
ABK015	15 ml
ABK125	125 ml
ABK500	500 ml
ABK999	1000 ml

### UltraTek Horseradish Peroxidase

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

Catalog Number	Volume
ABL008	8 ml
ABL015	15 ml
ABL125	125 ml
ABL500	500 ml
ABL999	1000 ml

## SensiTek

### SensiTek Kits

#### SensiTek HRP

### SensiTek HRP Anti-Mouse (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

Catalog Number	Volume
AEB080	70 Slides

### SensiTek HRP Anti-Mouse (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

Catalog Number	Volume
AEA080	70 Slides

### SensiTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block  
 One container of Anti-Mouse  
 One container of HRP

Catalog Number	Volume
SHM125	1250 Slides
SHM500	5000 Slides
SHM999	10000 Slides

### SensiTek HRP Anti-Mouse Staining System

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Mouse  
 4 x 15ml Alk-Phos

Catalog Number	Volume
AFA600	500 Slides

### SensiTek HRP Anti-Polyvalent (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

Catalog Number	Volume
AEN080	70 Slides

### SensiTek HRP Anti-Polyvalent (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

Catalog Number	Volume
AEM080	70 Slides

### SensiTek HRP Anti-Polyvalent Lab Pack

Contains: One container of Super Block  
 One container of Anti-Polyvalent  
 One container of HRP

Catalog Number	Volume
SHP125	1250 Slides
SHP500	5000 Slides
SHP999	10000 Slides

### SensiTek HRP Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Polyvalent  
 4 x 15ml HRP

Catalog Number	Volume
AFG600	500 Slides



**SensiTek HRP Anti-Rabbit (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

Catalog Number      Volume

AEJ080                      70 Slides

**SensiTek HRP Anti-Rabbit (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

Catalog Number      Volume

AEI080                      70 Slides

**SensiTek HRP Anti-Rabbit Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Rabbit  
 One container of HRP

Catalog Number      Volume

SHR125                      1250 Slides  
 SHR500                      5000 Slides  
 SHR999                      10000 Slides

**SensiTek HRP Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml HRP

Catalog Number      Volume

AFE600                      500 Slides

**SensiTek Alk-Phos**

**SensiTek Alk-Phos Anti-Mouse (Fast Red) Staining System**

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

Catalog Number      Volume

AEC080                      70 Slides

**SensiTek Alk-Phos Anti-Mouse Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Mouse  
 One container of Alk-Phos.

Catalog Number      Volume

SAM125                      1250 Slides  
 SAM500                      5000 Slides  
 SAM999                      10000 Slides

**SensiTek Alk-Phos Anti-Mouse Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Mouse  
 4 x 15ml Alk-Phos

Catalog Number      Volume

AFB600                      500 Slides

**SensiTek Alk-Phos Anti-Polyvalent (Fast Red) Staining System**

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

Catalog Number      Volume

AES080                      70 Slides

**SensiTek Alk-Phos Anti-Polyvalent Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Polyvalent  
 One container of Alk-Phos.

Catalog Number      Volume

SAP125                      1250 Slides  
 SAP500                      5000 Slides  
 SAP999                      10000 Slides

**SensiTek Alk-Phos Anti-Polyvalent Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Polyvalent  
 4 x 15ml Alk-Phos

Catalog Number      Volume

AFH600                      500 Slides

**SensiTek Alk-Phos Anti-Rabbit (Fast Red) Staining System**

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

Catalog Number      Volume

AEK080                      70 Slides

**SensiTek Alk-Phos Anti-Rabbit Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Rabbit  
 One container of Alk-Phos.

Catalog Number      Volume

SAR125                      1250 Slides  
 SAR500                      5000 Slides  
 SAR999                      10000 Slides

**SensiTek Alk-Phos Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml Alk-Phos

Catalog Number      Volume

AFF600                      500 Slides



## SensiTek Individual Reagents

### SensiTek Alkaline Phosphatase

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABH008	8 ml
ABH015	15 ml
ABH125	125 ml
ABH500	500 ml
ABH999	1000 ml

### SensiTek Anti-Mouse

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABC008	8 ml
ABC015	15 ml
ABC125	125 ml
ABC500	500 ml
ABC999	1000 ml

### SensiTek Anti-Polyvalent

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABF008	8 ml
ABF015	15 ml
ABF125	125 ml
ABF500	500 ml
ABF999	1000 ml

### SensiTek Anti-Rabbit

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABE008	8 ml
ABE015	15 ml
ABE125	125 ml
ABE500	500 ml
ABE999	1000 ml

### SensiTek Horseradish Peroxidase

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABG008	8 ml
ABG015	15 ml
ABG125	125 ml
ABG500	500 ml
ABG999	1000 ml

### Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

## EconoTek

### HRP

#### EconoTek HRP Anti-Polyvalent (DAB)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains:	1 x 8ml	Peroxide Block
	1 x 8ml	Super Block
	1 x 8ml	Anti-Polyvalent
	1 x 8ml	HRP
	1 x 3ml	DAB Chromogen
	7 x 5ml	DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEX080	70 Slides

## Polymer IHC

### Polymer Kits



#### EconoTek HRP Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

<u>Catalog Number</u>	<u>Volume</u>
EHP125	1250 Slides
EHP500	5000 Slides
EHP999	10000 Slides

## Alk-Phos

#### EconoTek Alk-Phos Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

<u>Catalog Number</u>	<u>Volume</u>
EAP125	1250 Slides
EAP500	5000 Slides
EAP999	10000 Slides

#### EconTek Alk-Phos Anti-Polyvalent (Fast Red)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains: 1 x 8ml Super Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml Alk-Phos  
8 Fast-Red Tablets  
8 x 5ml Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
AEY080	70 Slides

#### CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack

The CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig.

Each Lab Pack includes either 125ml, 500ml, or 1000ml of each component.

Contains: One bottle of Super Block.  
One bottle of CRF Anti-Polyvalent HRP Polymer.  
One bottle of DAB Substrate (High Contrast)  
One vial of DAB Chromogen Concentrate.

<u>Catalog Number</u>	<u>Volume</u>
CPP125	1250 Slides
CPP500	5000 Slides
CPP999	10000 Slides

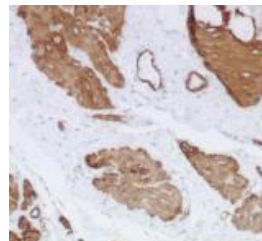
## Polymer HRP

#### CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit

The CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig.

Kit Contents: Peroxide Block 8 ml  
Super Block 8 ml  
CRF Anti-Polyvalent HRP 8 ml  
DAB Chromogen Concentrate 3 ml  
DAB Substrate (High Contrast) 5 ml x 8 vials

<u>Catalog Number</u>	<u>Volume</u>
CPH080	80 Slides



CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit

### PolyTek HRP Anti-Mouse Polymerized Imaging System

ScyTek introduces the PolyTek HRP Anti-Mouse Polymerized Imaging System designed for high quality immunohistochemistry. The ultimate in IHC staining quality is now provided by ScyTek in a kit that includes all reagents needed to complete staining for image analysis. Each component has been specially developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. Each reagent has been reformulated to provide the highest possible contrast between positive staining and the counter stain.

The kit is being introduced as a kit capable of staining up to 70 slides, utilizing DAB as the chromogen and may be used with primary antibodies of mouse origin.

Contains:	1 x 125ml	Citrate Plus
	1 x 8ml	Peroxide Block for Image Analysis
	1 x 8ml	Super Block
	1 x 8ml	PolyTek Anti-Mouse HRP
	1 x 3ml	DAB Chromogen for Image Analysis
	8 x 5ml	DAB Substrate for Image Analysis
	1 x 125ml	Hematoxylin for Automation
	1 x 125ml	Bluing Reagent

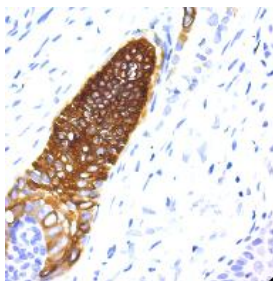
<u>Catalog Number</u>	<u>Volume</u>
PIR080	70 Slides

## Polymer Individual Reagents

### CRF Anti-Polyvalent HRP Polymer

CRF Anti-Polyvalent HRP Polymer has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. CRF Anti-Polyvalent HRP Polymer is effective with antibodies of mouse, rat, rabbit and guinea pig.

<u>Catalog Number</u>	<u>Volume</u>
ABZ008	8 ml
ABZ015	15 ml
ABZ125	125 ml
ABZ500	500 ml
ABZ999	1000 ml



CRF Anti-Polyvalent HRP Polymer

### PolyTek, Anti-Mouse Polymerized HRP

PolyTek, Anti-Mouse Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

<u>Catalog Number</u>	<u>Volume</u>
PAM008	8 ml
PAM015	15 ml

### Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

## Species Specific Reagents

## Mouse to Mouse

### Mouse to Mouse Alk-Phos (Fast Red) Staining System

Contains:	1 x 8ml	Super Block
	1 x 8ml	Mouse Block
	1 x 8ml	Anti-Polyvalent
	1 x 8ml	Alk-Phos
	1 x 7	Fast Red Tablets
	7 x 5ml	Naphthol Phosphate Buffer

<u>Catalog Number</u>	<u>Volume</u>
MTM004	70 Slides

### Mouse to Mouse Alk-Phos Staining System

Contains:	3 x 15ml	Super Block
	3 x 15ml	Mouse Block
	3 x 15ml	Anti-Polyvalent
	3 x 15ml	Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
MTM005	400 Slides

**Mouse to Mouse HRP (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Mouse Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml Chromogen  
 6 x 5ml Substrate

<u>Catalog Number</u>	<u>Volume</u>
MTM002	70 Slides

**Mouse to Mouse HRP (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Mouse Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml Chromogen  
 6 x 5ml Substrate

<u>Catalog Number</u>	<u>Volume</u>
MTM001	70 Slides

**Mouse to Mouse HRP Staining System**

Contains: 3 x 15ml Super Block  
 3 x 15ml Mouse Block  
 3 x 15ml Anti-Polyvalent  
 3 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
MTM003	400 Slides

**Mouse-to-Mouse Blocking Reagent**

ScyTek's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Mouse staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

**Human to Human****Human-to-Human Blocking Reagent**

ScyTek's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

<u>Catalog Number</u>	<u>Volume</u>
HTH100	100 ml

**Rabbit to Rabbit****Rabbit-to-Rabbit Blocking Reagent**

ScyTek's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Rabbit staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

**Blocking Reagents (IHC)****Biotin Blocking Kit for Image Analysis**

Biotin Blocking Kit has been developed to use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous biotin. Biotin is a coenzyme of decarboxylase. It is present in many tissues, such as liver, pancreas, kidney, and intestine. Endogenous biotin can interfere with staining systems that employ the use of biotin. This product is designed to effectively eliminate the interfering tendencies of endogenous biotin.

Clear liquid, two components (A and B).

Store Biotin Blocking Kit at 2-8 deg. C. Product is stable for 18 months from date of manufacture.

<u>Catalog Number</u>	<u>Volume</u>
BBK030	30 ml
BBK120	120 ml

**Human-to-Human Blocking Reagent**

ScyTek's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

<u>Catalog Number</u>	<u>Volume</u>
HTH100	100 ml

**Mouse-to-Mouse Blocking Reagent**

ScyTek's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Mouse staining system for optimal results.

Catalog Number	Volume
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

**Peroxide Block**

Is recommended for the reduction of background staining due to endogenous peroxidase.

Catalog Number	Volume
ACA015	15 ml
ACA125	125 ea.
ACA500	500 ml
ACA999	1000 ml

**Peroxide Block for Image Analysis**

This reagent has been developed for use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous peroxidase. Traditional methods describe blocking peroxidase with hydrogen peroxide. This reagent employs hydrogen peroxide in combination with additional novel components to further quench endogenous peroxidase.

Storage: 2-8 deg. Centigrade

Catalog Number	Volume
ADA015	15 ml
ADA500	500 ml
ADA999	1000 ml

**Pro-Block**

Is a unique serum-free protein block for immunochemistry. Pro-Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum.

Pro-Block is similar to Super Block, but without casein. The reagent is filtered at 0.2 microns.

Catalog Number	Volume
PBK125	125 ml
PBK500	500 ml
PBK999	1000 ml
PBK010	10 L
PBK-20000	20 L

**Rabbit-to-Rabbit Blocking Reagent**

ScyTek's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Rabbit staining system for optimal results.

Catalog Number	Volume
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

**Super Block**

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

Catalog Number	Volume
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

**Chromogens (IHC)**

**HRP**

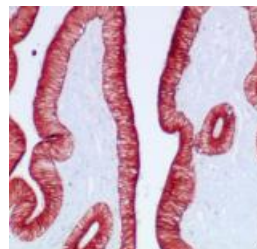


**HRP Kits**

**AEC Chromogen/Substrate Bulk Kit**

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture.

Catalog Number	Volume
ACJ500	515 ml
ACJ999	1030 ml



AEC Chromogen/Substrate Bulk Kit

**AEC Chromogen/Substrate Kit**

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture. This kit is formatted using convenient dropper-top vials.

Substrate Pack:  
55ml Substrate (5 x 11 vials)  
3ml AEC Chromogen

<u>Catalog Number</u>	<u>Volume</u>
ACG500	500 Slides

**DAB (Post) Enhancing Solution**

This single component reagent is designed to be used in a post-staining procedure. After normal DAB development, if additional sensitivity is needed, the slides are simply dipped in this reagent for 1-2 minutes.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

**DAB Away Kit**

Contamination with Diaminobenzidine residue is a problem seen in many laboratories. Of particular concern to the technician is the reusable glassware and staining pads. This product completely removes the stain, rather than simply reduce the color intensity as the use of bleach does. The three component kit makes one liter of cleaning solution.

COMPONENTS:  
DAB Reagent #1 - 125 ml  
DAB Reagent #2 - 125 ml  
Decolorizer - 250 ml

<u>Catalog Number</u>	<u>Volume</u>
ACP001	500 ml

**DAB Chromogen/Substrate Bulk pack**

3,3'-Diaminobenzidine (DAB) Ready-to-Use  
Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form.

<u>Catalog Number</u>	<u>Volume</u>
ACK500	530 ml
ACK999	1060 ml

**DAB Chromogen/Substrate Bulk Pack (High Contrast)**

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume.

<u>Catalog Number</u>	<u>Volume</u>
ACV500	530 ml
ACV999	1060 ml

**DAB Chromogen/Substrate Kit**

3,3'-Diaminobenzidine (DAB) Ready-to-Use  
Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top substrate packs.

Substrate Pack:  
55ml DAB Substrate (x11 vials)  
3ml DAB Chromogen

<u>Catalog Number</u>	<u>Volume</u>
ACH500	500 Slides

**DAB Chromogen/Substrate Kit (High Contrast)**

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. ScyTek recommends using Hematoxyling for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, making it ideal for automated stainers.

<u>Catalog Number</u>	<u>Volume</u>
ACT500	500 Slides



**DAB Differentiating Solution**

May be used for removal of excess DAB staining from tissue specimens.

<u>Catalog Number</u>	<u>Volume</u>
DDS500	500 ml

**DAB Enhancer Solution**

Is a single component reagent that is added to the DAB solution prior to incubation on the tissue section. One drop (50 microliters) of DAB Enhancer is added to each one ml of DAB Substrate.

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

## HRP Individual Reagents

**AEC Chromogen Concentrate**

<u>Catalog Number</u>	<u>Volume</u>
ACD015	15 ml
ACD030	30 ml
ACD125	125 ml

**AEC Substrate Buffer**

<u>Catalog Number</u>	<u>Volume</u>
ACE500	500 ml
ACE999	1000 ml

**DAB (Post) Enhancing Solution**

This single component reagent is designed to be used in a post-staining procedure. After normal DAB development, if additional sensitivity is needed, the slides are simply dipped in this reagent for 1-2 minutes.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

**DAB Chromogen Concentrate**

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with ScyTek catalog number ACC999, DAB Substrate.

<u>Catalog Number</u>	<u>Volume</u>
ACB030	30 ml
ACB060	60 ml
ACB125	125 ml
ACB500	500 ml
ACB999	1000 ml

**DAB Enhancer Solution**

Is a single component reagent that is added to the DAB solution prior to incubation on the tissue section. One drop (50 microliters) of DAB Enhancer is added to each one ml of DAB Substrate.

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

**DAB Substrate (High Contrast)**

This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with ScyTek catalog number ACB030, DAB Chromogen.

<u>Catalog Number</u>	<u>Volume</u>
ACU250	250 ml
ACU500	500 ml
ACU999	1000 ml

**DAB Substrate Buffer**

This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with ScyTek catalog number ACB030, DAB Chromogen.

<u>Catalog Number</u>	<u>Volume</u>
ACC500	500 ml
ACC999	1000 ml

## Alk-Phos IVD

### Alk-Phos Kits

**Alk-Phos Blue Kit**

Alk-Phos Blue is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Alk-Phos Blue produces a bright blue precipitate that may be permanently mounted with minimal loss of intensity.

<u>Catalog Number</u>	<u>Volume</u>
APB-60	64 ml

**BCIP/INT Solution**

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution  
Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml



### BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

Catalog Number	Volume
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

### Fast-Red Substrate Pack

Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the Alkaline-Phosphatase enzyme, Fast-Red produces a bright red precipitate that is soluble in alcohol and must be used with an aqueous mounting media (AMT030). For convenience, Fast-Red is available in a convenient pack or in economical larger volumes (1 tablet dissolved in 5ml of buffer).

Substrate Pack: 11 Fast-Red Tablets  
55ml Naphthol Phosphate Buffer (5 x 11)

Catalog Number	Volume
FR0001	1 kit(s)

### New Fuchsin Kit

This is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, New Fuchsin produces an intense red/fuchsia precipitate that may be permanently mounted.

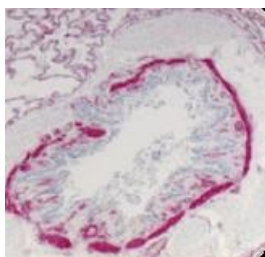
Pack Includes:

64 ml 60ml Buffer  
2ml New Fuchsin Concentrate  
2ml Activator

430 ml 400ml Buffer  
15ml New Fuchsin  
15ml Activator

4,250 ml 4,000ml Buffer  
125ml New Fuchsin  
125ml Activator

Catalog Number	Volume
NF0001	64 ml
NF0002	430 ml



New Fuchsin Kit

### Permanent Red Kit (For Alkaline Phosphatase)

Permanent Red (For Alkaline Phosphatase) is a two-component chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Permanent Red produces an intense red precipitate that is insoluble in alcohol and may be permanently mounted in synthetic resin. The working solution may be mixed for up to 2 hours prior to application making it suitable for automated staining.

Contents:

Catalog# PRD-15 1ml Permanent Red  
15ml Buffer

Catalog# PRD-61 2ml Permanent Red  
60ml Buffer

Catalog Number	Volume
PRD-15	15 ml
PRD-61	61 ml

## Alk-Phos Individual Reagents

### Alkaline Phosphatase Enhancer

Is a single component, ready-to-use reagent which produces a several-fold increase in staining intensity. To use, simply incubate the tissue section for one minute in this reagent, just prior to incubation with Fast-Red, BCIP, or New Fuchsin.

Catalog Number	Volume
APE125	125 ml
APE500	500 ml
APE999	1000 ml

### BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

Catalog Number	Volume
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

### BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

Catalog Number	Volume
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

**Fast-Red Tablets**

A widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the Alkaline-Phosphatase enzyme, Fast-Red produces a bright red precipitate. Use these tablets in conjunction with Naphthol Phosphate Buffer (Item # NPB).

<u>Catalog Number</u>	<u>Volume</u>
FRT025	25 ea.
FRT100	100 ea.
FRT999	1000 ea.

**Naphthol Phosphate Buffer**

Buffer for Fast Red Tablets (Item # FRT).

<u>Catalog Number</u>	<u>Volume</u>
NPB125	125 ml
NPB500	500 ml
NPB999	1000 ml
NPB-20000	20 L

**Naphthol Phosphate Buffer (High Contrast)**

Buffer for Fast Red Tablets (catalog# FRT) that results in a more intense stain than when using catalog# NPB.

<u>Catalog Number</u>	<u>Volume</u>
NPC125	125 ml
NPC500	500 ml
NPC999	1000 ml

**Ancillary (IHC)****BRIJ 35 Solution (25-30%)**

BRIJ 35 Solution is a nonionic polyoxyethylene surfactant used in a variety of protein methods. The reagent is an aqueous base containing 25-30% w/v proteomics grade BRIJ 35 making it optimal for use as a wetting agent in immunohistochemical reagents.

<u>Catalog Number</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1000 ml

**Primary Antibody Dropper Vial**

Provides a simple solution for storing and dispensing of diluted primary antibodies. Using a permanent marker, simply fill in the Antibody, Species, Date Manufactured, and the Expiration Date. Store diluted antibody at 2-8 C.

Contains: 1x15ml Vial, 1 Dropper Tip, 1 Green Cap, and 3 printed labels.

<u>Catalog Number</u>	<u>Volume</u>
PAV015	1 ea.

**Tween 20**

Polyoxyethylenesorbitan Monolaurate - Tween 20.

<u>Catalog Number</u>	<u>Volume</u>
TWN500	500 ml
TWN999	1000 ml

**Water, Deionized/Distilled**

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

**Antibody Diluents and Stabilizers**

IVD

**Alk-Phos Stabilizing Diluent**

This reagent is formulated specifically for Alkaline Phosphatase conjugates. The product insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final dilution. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions and storage temperatures. Alk-Phos Stabilizing Diluent is filtered at 0.2 um and reinforced with a non-mercury or azide-free preservative. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
APD500	500 ml
APD999	1000 ml

**Enzyme Label Diluent**

Provided as a ready-to-use diluent for enzyme labeled antibodies and streptavidin/avidin enzyme conjugates. Diluted reagents can be stored at 2-8 deg. C for up to 18 months at immunohistochemical dilutions. This reagent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABI500	500 ml
ABI999	1000 ml

**HRP Stabilizing Diluent (MOPS Buffered)**

HRP Stabilizing Diluent (MOPS Buffered) has been developed specifically for the stabilization of Horseradish Peroxidase conjugates in solution. HRP Stabilizer prevents the loss of catalytic activity and maintains the conformation of the antibody or protein antigen portion of the conjugate. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing diluent and stabilizer for Horseradish Peroxidase conjugates.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one, 0.005% Proclin 300 (Proclin is a registered trademark of Rohm & Haas Company), and 0.0008% Neomycin.

<u>Catalog Number</u>	<u>Volume</u>
HSM125	125 ml
HSM500	500 ml
HSM999	1000 ml

**HRP Stabilizing Diluent (Phosphate Buffered)**

This product has been developed to significantly increase the shelf life of diluted peroxidase labeled proteins. Stability is increased at room temperature storage conditions in addition to 2-8 centigrade. This product is subjected to 0.45 micron filtration, and contains no mercury or azide. This formulation insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final-use dilution. HRP Stabilizer greatly improves the signal to noise ratios which increases the immunoassay sensitivity and offers cleaner assays. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions & storage temperatures and improved day to day assay precision.

This product is recommended to be used in conjunction with ScyTek's proprietary Coating Stabilizer, Blocking Buffer (Super Block), Washing solution, TMB and Stopping Solution. All of the ELISA products are available in bulk quantities, including custom lot sizes up to 5000 liters. ScyTek Laboratories, Inc. specializes in custom manufacturing, vialing, labeling and packaging. Call today for a quote 800-729-8350.

<u>Catalog Number</u>	<u>Volume</u>
HSB500	500 ml
HSB999	1000 ml

**Normal Antibody Diluent (Phosphate Buffered)**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABB125	125 ml
ABB500	500 ml
ABB999	1000 ml

**Normal Antibody Diluent (Tris Buffered)**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ADT125	125 ml
ADT500	500 ml
ADT999	1000 ml

**Primary Antibody Diluent (Phosphate, Green)**

Provided as a ready-to-use (Phosphate Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
APG125	125 ml
APG500	500 ml
APG999	1000 ml
APG010	10 L

**Primary Antibody Diluent (Tris, Green)**

Provided as a ready-to-use (Tris Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
ATG125	125 ml
ATG500	500 ml
ATG999	1000 ml
ATG-20000	20 L

**Digestion Enzymes and Enhancers**

IVD

**Citrate Buffer (10x) pH 6.0**

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

## Buffers

IVD

**Citrate Plus (10x) HIER Solution**

This is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

**EDTA - Saline Buffer (10X Concentrate); pH 8.0**

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

**Pepsin, Stabilized Solution**

The tissue section is incubated 10 minutes at 37 deg. centigrade in this single component, ready-to-use solution. This product is stable for 12 months at 4 deg. Centigrade. Pepsin is a commonly used digestive enzyme for immunohistochemical procedures. This product is provided as a single component, ready-to-use solution.

<u>Catalog Number</u>	<u>Volume</u>
PSS060	60 ml
PSS125	125 ml

**Tris-EDTA HIER Solution (10x) pH 9.0**

Tris-EDTA HIER Solution (10x) pH 9.0 is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
TES500	500 ml
TES999	1000 ml

**Trypsin, Stabilized Solution**

The tissue section is incubated 10 minutes at 37 deg. centigrade in this two component, ready-to-use solution. This product is stable for 9 months at 2-8 deg. Centigrade. This product contains 30 or 60 ml of Trypsin concentrate, and 125 or 250 ml of Buffer.

<u>Catalog Number</u>	<u>Volume</u>
TSS155	155 ml
TSS310	310 ml

**Phosphate Buffered Saline (10x) pH 7.4**

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

**Phosphate Buffered Saline (25x) pH 7.6**

ScyTek Phosphate Buffered Saline (25x) pH of 7.6 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

### Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

### Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

**Tris Buffered Saline plus Tween 20 (10x) pH 7.5**

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

**Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4**

ScyTek Tris Buffered Saline + Tween 20 (20x Concentrate) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the tissue sample or microtiter plate wells without disrupting the antibody binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

**Mounting Media (IHC)****Aqueous Mount**

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use.

<u>Catalog Number</u>	<u>Volume</u>
AMT030	30 ml
AMT060	60 ml
AMT500	500 ml
AMT999	1000 ml

**Aqueous Mount (Low Viscosity)**

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. Flows more freely than AMT.

<u>Catalog Number</u>	<u>Volume</u>
AML030	30 ml
AML060	60 ml
AML500	500 ml
AML999	1000 ml

**Buffered Glycerol Mounting Media**

Buffered glycerol for mounting fluorescent slides.

<u>Catalog Number</u>	<u>Volume</u>
GMM003	3 ml
GMM030	30 ml
GMM500	500 ml
GMM999	1000 ml

**FluoreGuard Mounting Medium**

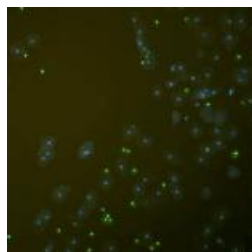
FluoreGuard Mounting Medium is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMM030	30 ml
FMM060	60 ml
FMM500	500 ml
FMM999	1000 ml

**FluoreGuard Mounting Medium (Hard Set)**

FluoreGuard Mounting Medium (Hard Set) is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMH030	30 ml
FMH060	60 ml
FMH500	500 ml
FMH999	1000 ml



FluoreGuard Mounting Medium (Hard Set)

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### **Permanent Mounting Media (Aqueous)**

AEC and Fast Red are the most commonly used chromogens for peroxidase and alkaline phosphatase based immunostaining systems respectively. However, slides stained with these chromogens cannot be stored permanently. Permanent Mounting Medium (Aqueous) has been designed to overcome this limitation. This product is an aqueous mounting medium with a very high refractive index, which when applied to the stained tissue sections can store the tissue specimens permanently without fading of the chromogens. Because of the superior refractive index, tissues mounted in this medium look like dehydrated specimens. No coverslipping is required. However, if coverslipping is desired, dry slides can be post mounted using an organic based mounting medium. Advantages of this product include: no coverslip, no exposure to the organic fumes, permanent storage of slides and high resolution of tissue specimens. This reagent is compatible with AEC, DAB, Fast Red, BCIP/NBT, BCIP/INT and fluorescent dyes like FITC and phycobiliproteins. High pH ensures increased stability of fluorescence.

<u>Catalog Number</u>	<u>Volume</u>
PMT030	30 ml



# Antibodies

## Research Antibodies

### Monoclonal Concentrate

#### ACTH (Adrenocorticotrophic Hormone); Clone 2F6 (Concentrate)

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH  
 Clone: 2F6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0267-C.1	0.1 ml
RA0267-C.5	0.5 ml

#### ACTH (Adrenocorticotrophic Hormone); Clone 57 (Concentrate)

Species: Mouse  
 Immunogen: N-terminal fragment of human ACTH conjugated to KLH  
 Clone: 57  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0266-C.1	0.1 ml
RA0266-C.5	0.5 ml

#### ACTH (Adrenocorticotrophic Hormone); Clone AH26 & 57 (Concentrate)

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH (AH26); N-terminal fragment of human ACTH conjugated to KLH (57).  
 Clone: AH26 & 57  
 Isotype: IgG1, kappa (AH26); IgG1, kappa (57).  
 Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0268-C.1	0.1 ml
RA0268-C.5	0.5 ml

#### ACTH (Adrenocorticotrophic Hormone); Clone AH26 (Concentrate)

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH  
 Clone: AH26  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0265-C.1	0.1 ml
RA0265-C.5	0.5 ml

#### Actin, Muscle Specific (Muscle Cell Marker); Clone HHF35 (Concentrate)

Species: Mouse  
 Immunogen: SDS extract of human myocardium.  
 Clone: HHF35  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Rat. Others not known.  
 Positive Control: Muscle or sarcoma.  
 Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0405-C.1	0.1 ml
RA0405-C.5	0.5 ml

**Actin, Muscle Specific (Muscle Cell Marker); Clone MSA/953 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human actin protein.  
 Clone: MSA/953  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Rat. Others not known.  
 Positive Control: Muscle or sarcoma.  
 Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.  
 Status: RUO

Catalog Number	Volume
RA0406-C.1	0.1 ml
RA0406-C.5	0.5 ml

**Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone 1A4 (Concentrate)**

Species: Mouse  
 Immunogen: N-terminal decapeptide of alpha smooth muscle isoform of actin and conjugated to KLH.  
 Clone: 1A4  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Sheep, Goat, Cat, Dog, Rabbit, Mouse, Rat, Guinea Pig and Chicken.  
 Others not known.  
 Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.  
 Specificity: This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.  
 Status: RUO

Catalog Number	Volume
RA0001-C.1	0.1 ml
RA0001-C.5	0.5 ml

**Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone ACTA2/791 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human ACTA2 protein  
 Clone: ACTA2/791  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Shows a broad reactivity.  
 Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.  
 Specificity: This MAb is highly specific to actin from smooth muscles. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.  
 Status: RUO

Catalog Number	Volume
RA0002-C.1	0.1 ml
RA0002-C.5	0.5 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C3 (Concentrate)**

Species: Mouse  
 Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient  
 Clone: C3  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Monkey, Dog, and Pig. It does not react with Cow, Dog, Mouse, and Rat.  
 Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.  
 Specificity: This MAb is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.  
 Status: RUO

Catalog Number	Volume
RA0003-C.1	0.1 ml
RA0003-C.5	0.5 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone FETA/810 (Concentrate)**

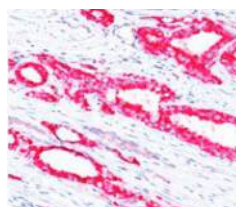
Species: Mouse  
 Immunogen: Recombinant human alpha fetoprotein  
 Clone: FETA/810  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.  
 Specificity: This MAb recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). It is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.  
 Status: RUO

Catalog Number	Volume
RA0004-C.1	0.1 ml
RA0004-C.5	0.5 ml

**AMACR / p504S (Prostate Cancer Marker); Clone 13H4 (Concentrate)**

Species: Rabbit  
 Immunogen: Recombinant full length human AMACR protein  
 Clone: 13H4  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: HEK cells or Prostate Adenocarcinoma.  
 Specificity: This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S.  
 Status: RUO

Catalog Number	Volume
RA0353-C.1	0.1 ml
RA0353-C.5	0.5 ml



AMACR / p504S (Prostate Cancer Marker); Clone 13H4 (Concentrate)

**AMP Deaminase, Isoform E (AMPD3) (Erythroid Marker); Clone AMPD3/901 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human AMPD3 protein  
 Clone: AMPD3/901  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: RBC. Fetal liver; Spleen or Placenta.  
 Specificity: This antibody recognizes a protein of ~90kDa, which is identified as Adenosine Monophosphate Deaminase, isoform E (AMPD3).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0423-C.5	0.5 ml

**Androgen Receptor (Marker of Androgen Dependence); Clone AR441 & DHTR/882 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR (AR441); Recombinant human DHTR protein (DHTR/882)  
 Clone: AR441 & DHTR/882  
 Isotype: IgG1, kappa & IgG1, kappa  
 Species Reactivity: Human. Does not react with mouse. Others not known  
 Positive Control: LNCap cells or Prostate carcinoma  
 Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0012-C.1	0.1 ml
RA0012-C.5	0.5 ml

**Androgen Receptor (Marker of Androgen Dependence); Clone AR441 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR  
 Clone: AR441  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with mouse. Others not known.  
 Positive Control: LNCap cells or Prostate carcinoma.  
 Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0010-C.1	0.1 ml
RA0010-C.5	0.5 ml

**Androgen Receptor (Marker of Androgen Dependence); Clone DHTR/882 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human DHTR protein  
 Clone: DHTR/882  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with mouse. Others not known.  
 Positive Control: LNCap cells or Prostate carcinoma  
 Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0011-C.1	0.1 ml
RA0011-C.5	0.5 ml

**Bax (Apoptosis Marker); Clone 2D2 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa 3-16 (Cys-GSGEQPRGGGPTSS) of human bax protein.  
 Clone: 2D2  
 Isotype: IgG1  
 Species Reactivity: Human and Monkey. Does not react with mouse and rat. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 21kDa, identified as the Bax protein. This MAb is highly specific to Bax and shows no cross-reaction with Bcl-2 or Bcl-X protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0013-C.1	0.1 ml
RA0013-C.5	0.5 ml

**BCL10 (MALT-Lymphoma Marker); Clone BL10/411 (Concentrate)**

Species: Mouse  
 Immunogen: Human BCL10 recombinant protein (epitope aa 122-168)  
 Clone: BL10/411  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: WEHI-231 or Ramos cells or lymphoma.  
 Specificity: This antibody labels subpopulations of normal B-cells and T-cells and is a useful tool for the sub-classification of lymphomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0347-C.1	0.1 ml
RA0347-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone 100/D5 & 124 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 (100/D5 & 124)  
 Clone: 100/D5 & 124  
 Isotype: IgG1, kappa (100/D5); IgG1, kappa (124)  
 Species Reactivity: Human. Does not react with mouse and rat. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0017-C.1	0.1 ml
RA0017-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone 100/D5 & BCL2/796**

Species: Mouse  
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein (100/D5); Recombinant human Bcl-2 protein (BCL2/796).  
 Clone: 100/D5 & BCL2/796  
 Isotype: IgG1, kappa (100/D5); IgG1, kappa (BCL2/796).  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0020-C.1	0.1 ml
RA0020-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone BCL2/782 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Bcl-2 protein  
 Clone: BCL2/782  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0018-C.1	0.1 ml
RA0018-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker); Clone BCL2/796 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Bcl-2 protein  
 Clone: BCL2/796  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0019-C.1	0.1 ml
RA0019-C.5	0.5 ml

**Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 100/D5 (Concentrate)**

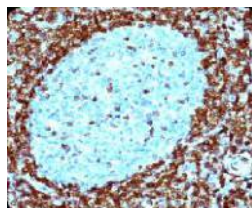
Species: Mouse  
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein.  
 Clone: 100/D5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0015-C.1	0.1 ml
RA0015-C.5	0.5 ml

**Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 124 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein  
 Clone: 124  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0016-C.1	0.1 ml
RA0016-C.5	0.5 ml



Bcl-2 (Apoptosis and Follicular Lymphoma Marker); Clone 124 (Concentrate)

**Bcl-6 (Follicular Lymphoma Marker); Clone IG191E/A8 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human bcl-6 protein  
 Clone: IG191E/A8  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: Raji or Ramos cells. Tonsil or Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 95kDa, which is identified as Bcl-6. The Reed-Sternberg cells of classical Hodgkin lymphoma are Bcl-6 negative whereas the large ("L&H") cells of NLPHL are Bcl-6 positive. In contrast, anti-Bcl-6 rarely stains mantle-cell lymphoma and MALT lymphoma.  
 Status: RUO

Catalog Number	Volume
RA0024-C.1	0.1 ml
RA0024-C.5	0.5 ml

**Bcl-X (Apoptosis Marker); Clone 2H12 (Concentrate)**

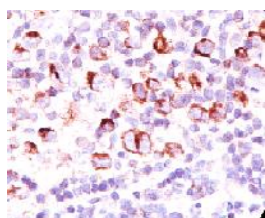
Species: Mouse  
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDFLS) of human Bcl-X protein  
 Clone: 2H12  
 Isotype: IgG2a  
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.  
 Status: RUO

Catalog Number	Volume
RA0022-C.1	0.1 ml
RA0022-C.5	0.5 ml

**Bcl-X (Apoptosis Marker); Clone BX006 & 2H12 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDFLS) of human Bcl-X protein  
 Clone: BX006 & 2H12  
 Isotype: IgG2a (BX006) & IgG2a (2H12)  
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.  
 Status: RUO

Catalog Number	Volume
RA0023-C.1	0.1 ml
RA0023-C.5	0.5 ml



Bcl-X (Apoptosis Marker);  
 Clone BX006 & 2H12 (Concentrate)

**Bcl-X (Apoptosis Marker); Clone BX006 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDFLS) of human Bcl-X protein.  
 Clone: BX006  
 Isotype: IgG2a  
 Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.  
 Status: RUO

Catalog Number	Volume
RA0021-C.1	0.1 ml
RA0021-C.5	0.5 ml

**Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/1118 (Concentrate)**

Species: Mouse  
 Immunogen: Full length recombinant human B2M protein  
 Clone: B2M/1118  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and non-human primates. Others not known.  
 Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.  
 Specificity: This antibody is specific for the 12kDa protein known as Beta-2 Microglobulin.  
 Status: RUO

Catalog Number	Volume
RA0424-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker); Clone 85-2C8 (Concentrate)**

Species: Mouse  
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from Helix pomatia)  
 Clone: 85-2C8  
 Isotype: IgG1  
 Species Reactivity: All species  
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU.  
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.  
 Status: RUO

Catalog Number	Volume
RA0378-C.1	0.1 ml
RA0378-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BRD.3 (Concentrate)**

Species: Mouse  
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to BSA  
 Clone: BRD.3  
 Isotype: IgG1  
 Species Reactivity: All species  
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU  
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0377-C.1	0.1 ml
RA0377-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BRD469 (Concentrate)**

Species: Mouse  
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH  
 Clone: BRD469  
 Isotype: IgG1  
 Species Reactivity: All species  
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU  
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0372-C.1	0.1 ml
RA0372-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BRD494 (Concentrate)**

Species: Mouse  
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH  
 Clone: BRD494  
 Isotype: IgG1  
 Species Reactivity: All species  
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU  
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0374-C.1	0.1 ml
RA0374-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BU20a (Concentrate)**

Species: Mouse  
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH  
 Clone: BU20a  
 Isotype: IgG1  
 Species Reactivity: All species  
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU  
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0375-C.1	0.1 ml
RA0375-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone MoBu-1 (Concentrate)**

Species: Mouse  
 Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)  
 Clone: MoBu-1  
 Isotype: IgG1  
 Species Reactivity: All species  
 Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU  
 Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0376-C.1	0.1 ml
RA0376-C.5	0.5 ml

**CA19-9/Sialyl Lewis a (GI Tumor Marker); Clone  
121SLE (Concentrate)**

Species: Mouse  
 Immunogen: Precipitin lines obtained after immuno-diffusion using monoclonal antibody 116-NS-19-9 and mucins isolated from an ovarian cyst of a Lewis A+B- patient (0Le).  
 Clone: 121SLE  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewis a structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis a and/or Lewis b blood group antigens.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0397-C.1	0.1 ml
RA0397-C.5	0.5 ml



**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 & h-CALD (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CALD1 protein (CALD1/820);

Crude human uterus extract (h-CALD)

Clone: CALD1/820 &amp; h-CALD

Isotype: IgG1, kappa (CALD1/820); IgG1, kappa (h-CALD)

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0030-C.1	0.1 ml
RA0030-C.5	0.5 ml

**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CALD1 protein

Clone: CALD1/820

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0029-C.1	0.1 ml
RA0029-C.5	0.5 ml

**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone h-CALD (Concentrate)**

Species: Mouse

Immunogen: Crude human uterus extract

Clone: h-CALD

Isotype: IgG1, kappa

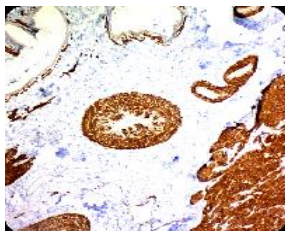
Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0028-C.1	0.1 ml
RA0028-C.5	0.5 ml



Caldesmon, HMW (h-Caldesmon)  
(Smooth Muscle Marker);  
Clone h-CALD (Concentrate)

**Calponin-1 (Smooth Muscle Marker); Clone CALP (Concentrate)**

Species: Mouse

Immunogen: Crude human uterus extract

Clone: CALP

Isotype: IgG1, kappa

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0099-C.1	0.1 ml
RA0099-C.5	0.5 ml

**Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 & CALP (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CNN1 protein (CNN1/832);

Crude human uterus extract (CALP)

Clone: CNN1/832 &amp; CALP

Isotype: IgG1, kappa (CNN1/832); IgG1, kappa (CALP)

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0101-C.1	0.1 ml
RA0101-C.5	0.5 ml

**Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CNN1 protein

Clone: CNN1/832

Isotype: IgG1, kappa

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0100-C.1	0.1 ml
RA0100-C.5	0.5 ml



Calponin-1 (Smooth Muscle Marker);  
Clone CALP (Concentrate)



**Carcinoembryonic Antigen (CEA) / CD66; Clone C66/261 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CEA protein  
 Clone: C66/261  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0083-C.1	0.1 ml
RA0083-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone CEA31 (Concentrate)**

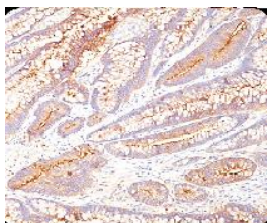
Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: CEA31  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0084-C.1	0.1 ml
RA0084-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: COL-1  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0082-C.1	0.1 ml
RA0082-C.5	0.5 ml



Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1 (Concentrate)

**Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1, CEA31 & C66/261 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract (COL-1 & CEA31); CEA recombinant protein (C66/261)  
 Clone: COL-1, CEA31 & C66/261  
 Isotype: IgG2a (COL-1); IgG1 (CEA31 & C66/261)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This monoclonal antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. It does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0085-C.1	0.1 ml
RA0085-C.5	0.5 ml

**CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone 1.4C3 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human umbilical vein endothelial cells (HUVEC)  
 Clone: 1.4C3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human placenta or tonsil.  
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0335-C.1	0.1 ml
RA0335-C.5	0.5 ml

**CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone VCAM1/843 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human VCAM1 protein  
 Clone: VCAM1/843  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human placenta or tonsil.  
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0336-C.1	0.1 ml
RA0336-C.5	0.5 ml

**CD117/c-Kit (Marker for Gastrointestinal Stromal Tumors); Clone C117/370 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD117 protein  
 Clone: C117/370  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.  
 Specificity: This antibody recognizes a protein of 145kDa, identified as CD117/p145kit.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0168-C.1	0.1 ml
RA0168-C.5	0.5 ml

**CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone FUT4/815 (Concentrate)**

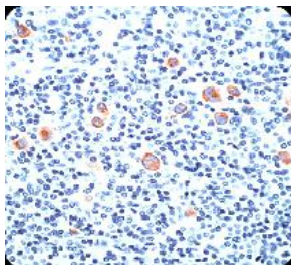
Species: Mouse  
 Immunogen: Recombinant human FUT4 protein  
 Clone: FUT4/815  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0120-C.1	0.1 ml
RA0120-C.5	0.5 ml

**CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone Leu-M1 (MMA) (Concentrate)**

Species: Mouse  
 Immunogen: U937 histiocytic cell line  
 Clone: Leu-M1 (MMA)  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0119-C.1	0.1 ml
RA0119-C.5	0.5 ml



CD15 / FUT4 (Reed-Sternberg Cell Marker);  
 Clone Leu-M1 (MMA) (Concentrate)

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone C1A/711 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD1a protein  
 Clone: C1A/711  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0032-C.1	0.1 ml
RA0032-C.5	0.5 ml

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 & C1A/711 (Concentrate)**

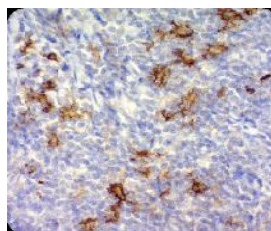
Species: Mouse  
 Immunogen: Human thymus cells (O10); Recombinant human CD1a protein (C1A/711)  
 Clone: O10 & C1A/711  
 Isotype: IgG1, kappa (O10) & IgG1, kappa (C1A/711)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0033-C.1	0.1 ml
RA0033-C.5	0.5 ml

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 (Concentrate)**

Species: Mouse  
 Immunogen: Human thymus cells  
 Clone: O10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0031-C.1	0.1 ml
RA0031-C.5	0.5 ml



CD1a / HTA1 (Mature Langerhans  
 Cells Marker); Clone O10 (Concentrate)

**CD20 / MS4A1 (B-Cell Marker); Clone IGEL/773 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MS4A1 protein  
 Clone: IGEL/773  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.  
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20.  
 Status: RUO

Catalog Number	Volume
RA0046-C.1	0.1 ml
RA0046-C.5	0.5 ml

**CD20 / MS4A1 (B-Cell Marker); Clone L26 & IGEL/773 (Concentrate)**

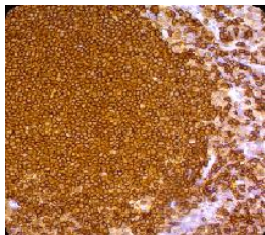
Species: Mouse  
 Immunogen: Human tonsil B-cells (L26); Recombinant human MS4A1 protein (IGEL/773)  
 Clone: L26 & IGEL/773  
 Isotype: IgG2a, kappa (L26); IgG2a, kappa (IGEL/773)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.  
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.  
 Status: RUO

Catalog Number	Volume
RA0047-C.1	0.1 ml
RA0047-C.5	0.5 ml

**CD20 / MS4A1 (B-Cell Marker); Clone L26 (Concentrate)**

Species: Mouse  
 Immunogen: Human tonsil B-cells  
 Clone: L26  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Cog, Pig, and Rat. Others not known.  
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.  
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.  
 Status: RUO

Catalog Number	Volume
RA0045-C.1	0.1 ml
RA0045-C.5	0.5 ml



CD20 / MS4A1 (B-Cell Marker); Clone L26 (Concentrate)

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 & CD30/412 (Concentrate)**

Species: Mouse  
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage (Ber-H2); human CD30 recombinant protein (CD30/412)  
 Clone: Ber-H2 & CD30/412  
 Isotype: IgG1, kappa (Ber-H2); IgG1, kappa (CD30/412)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAB distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.  
 Status: RUO

Catalog Number	Volume
RA0051-C.1	0.1 ml
RA0051-C.5	0.5 ml

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 (Concentrate)**

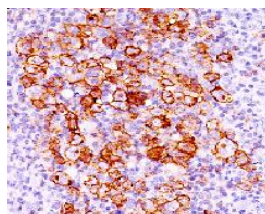
Species: Mouse  
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage  
 Clone: Ber-H2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.  
 Status: RUO

Catalog Number	Volume
RA0049-C.1	0.1 ml
RA0049-C.5	0.5 ml

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone CD30/412 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD30 recombinant protein  
 Clone: CD30/412  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAB distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.  
 Status: RUO

Catalog Number	Volume
RA0048-C.1	0.1 ml
RA0048-C.5	0.5 ml



CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone CD30/412 (Concentrate)

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ki-1/779 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TNFRSF8 protein  
 Clone: Ki-1/779  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0050-C.1	0.1 ml
RA0050-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone 158-2B3 (Concentrate)**

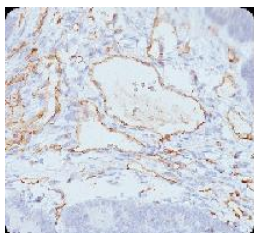
Species: Mouse  
 Immunogen: Stimulated human leukocytes (Workshop VI)  
 Clone: 158-2B3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0262-C.1	0.1 ml
RA0262-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone 1A10 (Concentrate)**

Species: Mouse  
 Immunogen: Prokaryotic recombinant fusion protein corresponding to a portion of the extracellular domain downstream of the signal sequence of the CD31 (PECAM-1).  
 Clone: 1A10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0260-C.1	0.1 ml
RA0260-C.5	0.5 ml



CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 & JC/70A (Concentrate)

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 & JC/70A (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD31 protein (C31.3); Membrane preparation of a spleen from a patient with hairy cell leukemia (JC/70A).  
 Clone: C31.3 & JC/70A  
 Isotype: IgG1, kappa (C31.3); IgG1, kappa (JC/70A)  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit.  
 Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0258-C.1	0.1 ml
RA0258-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD31 protein  
 Clone: C31.3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0257-C.1	0.1 ml
RA0257-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.7 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD31 protein  
 Clone: C31.7  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit.  
 Others not known.  
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0256-C.1	0.1 ml
RA0256-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone JC/70A (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.  
 Clone: JC/70A  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0259-C.1	0.1 ml
RA0259-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone PECA1/848 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PECAM1 protein  
 Clone: PECA1/848  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0261-C.1	0.1 ml
RA0261-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone HPCA1/763 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HPCA1 protein  
 Clone: HPCA1/763  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.  
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0053-C.1	0.1 ml
RA0053-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 & HPCA1/763 (Concentrate)**

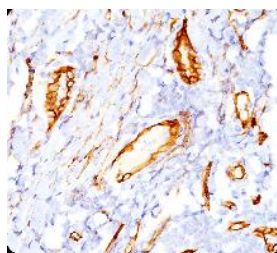
Species: Mouse  
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta (QBEnd/10); Recombinant human HPCA1 protein (HPCA1/763)  
 Clone: QBEnd/10 & HPCA1/763  
 Isotype: IgG1, kappa (QBEnd/10); IgG1, kappa (HPCA1/763)  
 Species Reactivity: Human. Others not known.  
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.  
 Specificity: This monoclonal antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0054-C.1	0.1 ml
RA0054-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 (Concentrate)**

Species: Mouse  
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta  
 Clone: QBEnd/10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.  
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma  
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0052-C.1	0.1 ml
RA0052-C.5	0.5 ml



CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 (Concentrate)



**CD35 / CR1 (Follicular Dendritic Cell Marker); Clone CR1/802 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CR1 protein  
 Clone: CR1/802  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, and Monkey. Others not known.  
 Positive Control: Follicular dendritic cells (FDC) in tonsil.  
 Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.  
 Status: RUO

Catalog Number	Volume
RA0103-C.1	0.1 ml
RA0103-C.5	0.5 ml

**CD35 / CR1 (Follicular Dendritic Cell Marker); Clone E11 (Concentrate)**

Species: Mouse  
 Immunogen: Intact human monocytes  
 Clone: E11  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, Cynomolgus Monkey, Rhesus Monkey. Others not known.  
 Positive Control: Follicular dendritic cells (FDC) in tonsil.  
 Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.  
 Status: RUO

Catalog Number	Volume
RA0102-C.1	0.1 ml
RA0102-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone 84-3C1 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 84-3C1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].  
 Status: RUO

Catalog Number	Volume
RA0299-C.1	0.1 ml
RA0299-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone DF-T1 (Concentrate)**

Species: Mouse  
 Immunogen: Myeloblastic KG1 cells  
 Clone: DF-T1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].  
 Status: RUO

Catalog Number	Volume
RA0297-C.1	0.1 ml
RA0297-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone SPN/839 (Concentrate)**

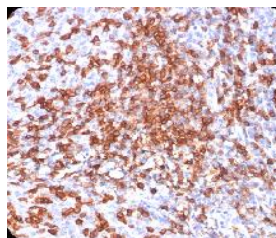
Species: Mouse  
 Immunogen: Recombinant human SPN protein  
 Clone: SPN/839  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].  
 Status: RUO

Catalog Number	Volume
RA0298-C.1	0.1 ml
RA0298-C.5	0.5 ml

**CD44 / HCAM Std.; Clone 156-3C11 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 156-3C11  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Baboon, and Green Monkey. Others not tested.  
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.  
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.  
 Status: RUO

Catalog Number	Volume
RA0055-C.1	0.1 ml
RA0055-C.5	0.5 ml



CD44 / HCAM Std.;  
 Clone 156-3C11 (Concentrate)

**CD44 / HCAM Std.; Clone HCAM/918 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HCAM protein  
 Clone: HCAM/918  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human and non-human Primates. Others not tested.  
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.  
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0056-C.1	0.1 ml
RA0056-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 135-4C5 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 135-4C5  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0283-C.1	0.1 ml
RA0283-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 136-4B5 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 136-4B5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0284-C.1	0.1 ml
RA0284-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 2B11 & PD7/26 (Concentrate)**

Species: Mouse  
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).  
 Clone: 2B11 & PD7/26  
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0280-C.1	0.1 ml
RA0280-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 2B11 (Concentrate)**

Species: Mouse  
 Immunogen: Isolated neoplastic cells from T-cell lymphoma  
 Clone: 2B11  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0277-C.1	0.1 ml
RA0277-C.5	0.5 ml

**CD45RA (Leukocyte Marker); Clone 111-1C5 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 111-1C5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, IM9 and human lymphocytes. Human lymph nodes and tonsils.  
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0282-C.1	0.1 ml
RA0282-C.5	0.5 ml



**CD45RA (Leukocyte Marker); Clone 158-4D3 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 158-4D3  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, IM9 and human lymphocytes.  
 Human lymph nodes and tonsils.  
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0275-C.1	0.1 ml
RA0275-C.5	0.5 ml

**CD45RB (Leukocyte Marker); Clone PD7/26 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood lymphocytes maintained in T-cell growth factor  
 Clone: PD7/26  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0279-C.1	0.1 ml
RA0279-C.5	0.5 ml

**CD45RO (T-Cell Marker); Clone T200/797 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD45RO protein  
 Clone: T200/797  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0281-C.1	0.1 ml
RA0281-C.5	0.5 ml

**CD45RO (T-Cell Marker); Clone UCHL-1 (Concentrate)**

Species: Mouse  
 Immunogen: Cultured human T-cells from an IL-2-dependent T-cell line (CA1)  
 Clone: UCHL-1  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Chimpanzee, Common Marmoset. Others not known.  
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO) (4th Leukocyte Typing Workshop: Code No. N31). The epitope recognized by this antibody is sensitive to neuraminidase digestion. This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0274-C.1	0.1 ml
RA0274-C.5	0.5 ml

**CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 & CD5/54/F6 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD5 recombinant protein (C5/473); A synthetic peptide from the intracellular region of human CD5 (CD5/54/F6)  
 Clone: C5/473 & CD5/54/F6  
 Isotype: IgG1, kappa (C5/473) & IgG1, kappa (CD5/54/F6)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.  
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0037-C.1	0.1 ml
RA0037-C.5	0.5 ml

**CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD5 recombinant protein  
 Clone: C5/473  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.  
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0034-C.1	0.1 ml
RA0034-C.5	0.5 ml

**CD5 (Mantle Cell Lymphoma Marker); Clone CD5/54/F6 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide from the intracellular region of human CD5  
 Clone: CD5/54/F6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.  
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0036-C.1	0.1 ml
RA0036-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123A8 (56C04) (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a small cell lung carcinoma  
 Clone: 123A8 (same clone as 56C04)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.  
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0238-C.1	0.1 ml
RA0238-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 & 123A8 (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a small cell lung carcinoma (123C3.D5 & 123A8)  
 Clone: 123C3.D5 & 123A8  
 Isotype: IgG1, kappa (123C3.D5); IgG1, kappa (123A8)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.  
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0239-C.1	0.1 ml
RA0239-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123C3.D5 (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a small cell lung carcinoma  
 Clone: 123C3.D5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat, and Zebrafish. Others not known.  
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.  
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

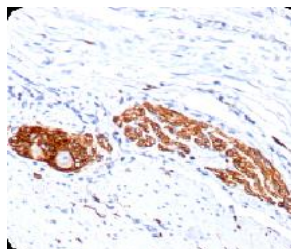
<u>Catalog Number</u>	<u>Volume</u>
RA0237-C.1	0.1 ml
RA0237-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/784 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human NCAM1 protein  
 Clone: NKH1/784  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.  
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0240-C.1	0.1 ml
RA0240-C.5	0.5 ml



CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123A8 (56C04) (Concentrate)

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone NKH1/795 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human NCAM1 protein  
 Clone: NKH1/795  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat and Zebrafish. Others not known.  
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.  
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0241-C.1	0.1 ml
RA0241-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 & NK-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells (HNK-1 & NK-1)  
 Clone: HNK-1 & NK-1  
 Isotype: IgM, kappa (HNK-1 & NK-1)  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0357-C.1	0.1 ml
RA0357-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 or Leu-7 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells  
 Clone: HNK-1 or Leu-7  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: CCRF-CEM Cells. Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0355-C.1	0.1 ml
RA0355-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK/804 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human B3GAT1 protein  
 Clone: NK/804  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0358-C.1	0.1 ml
RA0358-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK-1 (Concentrate)**

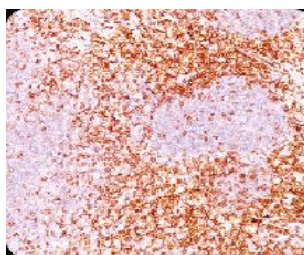
Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells  
 Clone: NK-1  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0356-C.1	0.1 ml
RA0356-C.5	0.5 ml

**CD6; Clone 3F7B5 (Concentrate)**

Species: Mouse  
 Immunogen: Human rheumatoid synovial T-cell line ST-1  
 Clone: 3F7B5  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.  
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0038-C.1	0.1 ml
RA0038-C.5	0.5 ml



CD6; Clone 3F7B5 (Concentrate)

**CD6; Clone C6/372 & 3F7B5 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD6 protein (C6/372);  
 Human rheumatoid synovial T-cell line ST-1 (3F7B5)  
 Clone: C6/372 & 3F7B5  
 Isotype: IgG1 (C6/372); IgG1 (3F7B5)  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat cells, tonsil.  
 Specificity: Cell membrane positivity as expressed by  
 thymocytes, mature/activated T-cells, a subset of B-cells known  
 as B-1 cells, and by some cells in the brain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0040-C.1	0.1 ml
RA0040-C.5	0.5 ml

**CD6; Clone C6/372 (Concentrate)**

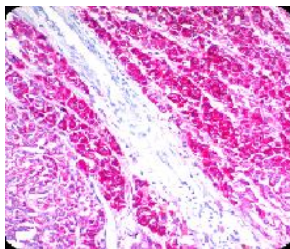
Species: Mouse  
 Immunogen: Human recombinant CD6 protein  
 Clone: C6/372  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.  
 Specificity: Cell membrane positivity as expressed by  
 thymocytes, mature/activated T-cells, a subset of B-cells known  
 as B-1 cells, and by some cells in the brain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0039-C.1	0.1 ml
RA0039-C.5	0.5 ml

**CD63 (Late Endosomes Marker); Clone LAMP3/803 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD63 protein  
 Clone: LAMP3/803  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells.  
 Melanoma or lymphoma.  
 Specificity: CD63 is expressed on activated platelets,  
 monocytes and macrophages, and is weakly expressed on  
 granulocytes, T-cells and B-cells. It is located on the basophilic  
 granule membranes and on the plasma membranes of  
 lymphocytes and granulocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0059-C.1	0.1 ml
RA0059-C.5	0.5 ml



CD63 (Late Endosomes Marker);  
 Clone LAMP3/803 (Concentrate)

**CD63 (Late Endosomes Marker); Clone MX-49.129.5 (Concentrate)**

Species: Mouse  
 Immunogen: Full length CD63 of human origin  
 Clone: MX-49.129.5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells.  
 Melanoma or lymphoma.  
 Specificity: CD63 is expressed on activated platelets,  
 monocytes and macrophages, and is weakly expressed on  
 granulocytes, T-cells and B-cells. It is located on the basophilic  
 granule membranes and on the plasma membranes of  
 lymphocytes and granulocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0058-C.1	0.1 ml
RA0058-C.5	0.5 ml

**CD63 (Late Endosomes Marker); Clone NKI/C3 (Concentrate)**

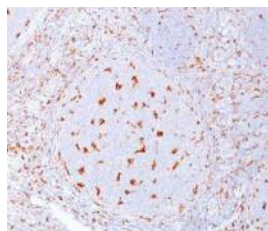
Species: Mouse  
 Immunogen: Smooth plasma membrane fraction of MeWo cells  
 Clone: NKI/C3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells.  
 Melanoma or lymphoma.  
 Specificity: CD63 is expressed on activated platelets,  
 monocytes and macrophages, and is weakly expressed on  
 granulocytes, T-cells and B-cells. It is located on the basophilic  
 granule membranes and on the plasma membranes of  
 lymphocytes and granulocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0057-C.1	0.1 ml
RA0057-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone C68/684 (Concentrate)**

Species: Mouse  
 Immunogen: Subcellular fraction of human alveolar  
 macrophages  
 Clone: C68/684  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Mouse, Rat, and Cat.  
 Others not known.  
 Positive Control: Tonsil, Lymph Node or Spleen.  
 Specificity: This antibody recognizes a glycoprotein of 110kDa,  
 which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0061-C.1	0.1 ml
RA0061-C.5	0.5 ml



CD68 (Macrophage Marker);  
 Clone C68/684 (Concentrate)

**CD68 (Macrophage Marker); Clone CD68/G2 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD68 protein  
 Clone: CD68/G2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Lymph Node or Spleen  
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0064-C.1	0.1 ml
RA0064-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone KP1 & C68/684 (Concentrate)**

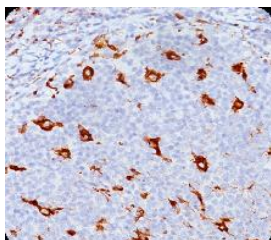
Species: Mouse  
 Immunogen: Subcellular fraction of human alveolar macrophages (KP1); Subcellular fraction of human alveolar macrophages (C68/684)  
 Clone: KP1 & C68/684  
 Isotype: IgG1, kappa (KP1); IgG1, kappa (C68/684)  
 Species Reactivity: Human, Monkey, Mouse, Rat and Cat. Others not known.  
 Positive Control: Tonsil, Lymph Node or Spleen.  
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0062-C.1	0.1 ml
RA0062-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone KP1 (Concentrate)**

Species: Mouse  
 Immunogen: Subcellular fraction of human alveolar macrophages  
 Clone: KP1  
 Isotype: IgG1, kappa  
 Positive Control: Tonsil, Lymph Node or Spleen  
 Cellular Localization: Cytoplasmic  
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0060-C.1	0.1 ml
RA0060-C.5	0.5 ml



CD68 (Macrophage Marker);  
Clone KP1 (Concentrate)

**CD68 (Macrophage Marker); Clone LAMP4/824 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human LAMP4 protein  
 Clone: LAMP4/824  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Lymph Node or Spleen.  
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0063-C.1	0.1 ml
RA0063-C.5	0.5 ml

**CD74 (B-Cell Marker); Clone CLIP/813 (Concentrate)**

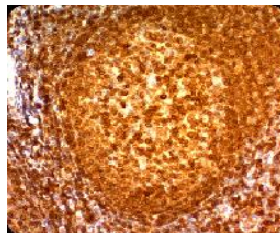
Species: Mouse  
 Immunogen: Recombinant human CD74 protein  
 Clone: CLIP/813  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.  
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0066-C.1	0.1 ml
RA0066-C.5	0.5 ml

**CD74 (B-Cell Marker); Clone LN-2 (Concentrate)**

Species: Mouse  
 Immunogen: SU-DHL-4 lymphoma cells  
 Clone: LN-2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon and Mouse. Does not react with Rat. Others not known.  
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.  
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74 (Workshop IV).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0065-C.1	0.1 ml
RA0065-C.5	0.5 ml



CD74 (B-Cell Marker);  
Clone LN-2 (Concentrate)



**CD79a (B-Cell Marker); Clone HM47/A9 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.

Clone: HM47/A9

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

Catalog Number	Volume
RA0069-C.1	0.1 ml
RA0069-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone IGA/515 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human IGA protein

Clone: IGA/515

Isotype: IgG1, kappa

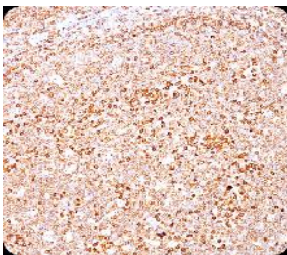
Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

Catalog Number	Volume
RA0073-C.1	0.1 ml
RA0073-C.5	0.5 ml



CD79a (B-Cell Marker); Clone HM47/A9 (Concentrate)

**CD79a (B-Cell Marker); Clone IGA/764 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human IGA protein

Clone: IGA/764

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

Catalog Number	Volume
RA0072-C.1	0.1 ml
RA0072-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone JCB117 & HM47/A9 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein (JCB117 and HM47/A9).

Clone: JCB117 &amp; HM47/A9

Isotype: IgG1, kappa (JCB117); IgG1, kappa (HM47/A9)

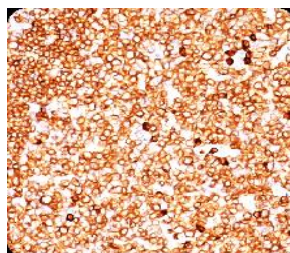
Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.

Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.

Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.

Status: RUO

Catalog Number	Volume
RA0071-C.1	0.1 ml
RA0071-C.5	0.5 ml



CD79a (B-Cell Marker); Clone JCB117 &amp; HM47/A9 (Concentrate)



**CD79a (B-Cell Marker); Clone JCB117 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.  
 Clone: JCB117  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.  
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0067-C.1	0.1 ml
RA0067-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/144B (Concentrate)**

Species: Mouse  
 Immunogen: A 13 amino acid peptide from C-terminal cytoplasmic domain of alpha chain of human CD8 molecule.  
 Clone: C8/144B  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0042-C.1	0.1 ml
RA0042-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 & C8/144B (Concentrate)**

Species: Mouse  
 Immunogen: Human CD8 recombinant protein (C8/468); A 13 amino acid synthetic peptide from the C-terminal cytoplasmic domain of alpha chain of human CD8 molecule (C8/144B)  
 Clone: C8/468 & C8/144B  
 Isotype: IgG1, kappa (C8/468); IgG1, kappa (C8/144B)  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0043-C.1	0.1 ml
RA0043-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD8 recombinant protein  
 Clone: C8/468  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0041-C.1	0.1 ml
RA0041-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 & MIC2/877 (Concentrate)**

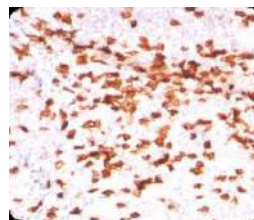
Species: Mouse  
 Immunogen: Human acute lymphocytic leukemia T-cells (12E7); Recombinant human MIC2 protein (MIC2/877)  
 Clone: 12E7 & MIC2/877  
 Isotype: IgG1, kappa (12E7); IgG1, kappa (MIC2/877)  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0206-C.1	0.1 ml
RA0206-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 (Concentrate)**

Species: Mouse  
 Immunogen: Human acute lymphocytic leukemia T-cells  
 Clone: 12E7  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0204-C.1	0.1 ml
RA0204-C.5	0.5 ml



CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/144B (Concentrate)

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone HO36-1.1 (Concentrate)**

Species: Mouse  
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes  
 Clone: HO36-1.1  
 Isotype: IgM, kappa  
 Species Reactivity: Human and Rat. Others not tested.  
 Positive Control: Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0203-C.1	0.1 ml
RA0203-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone MIC2/877 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MIC2 protein  
 Clone: MIC2/877  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0205-C.1	0.1 ml
RA0205-C.5	0.5 ml

**CDw75 (B-Cell Marker); Clone LN-1 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes.  
 Clone: LN-1  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa or Daudi Cells. Germinal center B-cells in a lymph node or tonsil. Use LN1's ability to stain surface of erythrocytes as an internal positive control.  
 Specificity: Recognizes a neuraminidase-sensitive sialoprotein (CDw75), present on cell membrane and cytoplasm of germinal center B-cells and derived lymphomas. This antibody reacts with RBC precursors of bone marrow, ductal, and ciliated epithelial cells of kidney, breast, prostate, pancreas, lung, and with glioblastomas, astrocytomas, and Reed Sternberg cells in lymphocyte predominant Hodgkin's disease.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0291-C.1	0.1 ml
RA0291-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/414 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human chromogranin A protein  
 Clone: CGA/414  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0090-C.1	0.1 ml
RA0090-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/765 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CHGA protein  
 Clone: CHGA/765  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0096-C.1	0.1 ml
RA0096-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/777 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CHGA protein  
 Clone: CHGA/777  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0097-C.1	0.1 ml
RA0097-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/798 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CHGA protein  
 Clone: CHGA/798  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0098-C.1	0.1 ml
RA0098-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 & PHE5 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5)  
 Clone: LK2H10 & PHE5  
 Isotype: IgG1, kappa (LK2H10 & PHE5)  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0094-C.1	0.1 ml
RA0094-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma  
 Clone: LK2H10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with Guinea Pig, Sheep & Rabbit. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0091-C.1	0.1 ml
RA0091-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10, PHE5 & CGA/414 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5) & recombinant human chromogranin A protein (CGA414).  
 Clone: LK2H10, PHE5 & CGA/414  
 Isotype: IgG1, kappa (LK2H10, PHE5 & CGA/414)  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0095-C.1	0.1 ml
RA0095-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone PHE5 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma  
 Clone: PHE5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey. Does not react with Mouse and Rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0093-C.1	0.1 ml
RA0093-C.5	0.5 ml

**c-Myc Oncoprotein; Clone 9E10.3 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, corresponding to aa 408-439 (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA) from the C-terminus of human c-Myc, coupled to KLH.  
 Clone: 9E10.3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse, Rat, or Chicken. Others not tested.  
 Positive Control: HL-60 cells or breast carcinoma.  
 Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0226-C.1	0.1 ml
RA0226-C.5	0.5 ml

**c-Myc Oncoprotein; Clone MYC909 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human c-Myc protein  
 Clone: MYC909  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: HL-60 cells or breast carcinoma.  
 Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0227-C.1	0.1 ml
RA0227-C.5	0.5 ml

**Complement 4d (C4d) (Acute Humoral Rejection Marker); Clone C4D204 (Concentrate)**

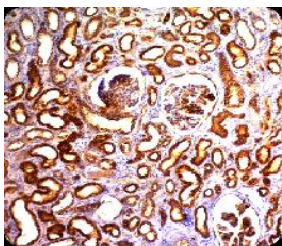
Species: Mouse  
 Immunogen: Recombinant human Complement 4d protein  
 Clone: C4D204  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Rejected Renal Transplant Tissue  
 Specificity: This Mab is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0025-C.1	0.1 ml
RA0025-C.5	0.5 ml

**Cyclin B1 (G2- & M-phase Cyclin); Clone CCNB1/1098 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CCNB1 protein  
 Clone: CCNB1/1098  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: Any human cell line in logarithmic growth phase, tonsil, or testis.  
 Specificity: This antibody recognizes a protein of 55-62kDa, identified as cyclin B1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0429-C.5	0.5 ml



Complement 4d (C4d) (Acute Humoral Rejection Marker); Clone C4D204 (Concentrate)

**Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone DCS-6 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant full length Cyclin D1 protein  
 Clone: DCS-6  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.  
 Positive Control: T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. Mantle cell lymphoma or breast carcinoma. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.  
 Specificity: Recognizes a protein of 36kDa, identified as Cyclin D1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0014-C.1	0.1 ml
RA0014-C.5	0.5 ml

**Cytochrome c (Mitochondrial Marker); Clone 7H8.2C12 (Concentrate)**

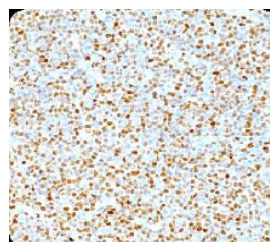
Species: Mouse  
 Immunogen: Synthetic peptides corresponding to amino acids 1-80, 81-104 and 66-104 of pigeon cytochrome c.  
 Clone: 7H8.2C12  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.  
 Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.  
 Specificity: This antibody recognizes an epitope within amino acids 93-104 of pigeon cytochrome c.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0359-C.1	0.1 ml
RA0359-C.5	0.5 ml

**Cytochrome c (Mitochondrial Marker); Clone CTC05 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant cytochrome c protein  
 Clone: CTC05  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.  
 Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.  
 Specificity: Recognizes cytochrome c in a wide range of species, from Drosophila to human.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0360-C.1	0.1 ml
RA0360-C.5	0.5 ml



Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone DCS-6 (Concentrate)

**Cytokeratin 10 (Suprabasal Epithelial Marker);  
Clone AE20 (Concentrate)**

Species: Mouse  
 Immunogen: Human cytokeratin 10  
 Clone: AE20  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.  
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0179-C.1	0.1 ml
RA0179-C.5	0.5 ml

**Cytokeratin 10 (Suprabasal Epithelial Marker);  
Clone KRT10/844 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT10 protein  
 Clone: KRT10/844  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.  
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0180-C.1	0.1 ml
RA0180-C.5	0.5 ml

**Cytokeratin 14 (KRT14) (Squamous Cell Marker);  
Clone LL002 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of 15 amino acids from the C-terminus of human keratin 14.  
 Clone: LL002  
 Isotype: IgG3  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: A431 cells. Skin or Squamous cell carcinoma.  
 Specificity: Anti-CK14 is useful in differentiating squamous cell carcinomas from poorly differentiated epithelial tumors. Anti-CK14 is one of the specific basal markers for distinguishing between basal and non-basal subtypes of breast carcinomas. Anti-CK14 is also a good marker for differentiation of intraductal from invasive salivary duct carcinoma by the positive staining of basal cells surrounding the in-situ neoplasm as well as for the differentiation of benign prostate from prostate carcinoma. Furthermore, this antibody has been useful in separating oncocytic tumors of the kidney from its renal mimics, and in identifying metaplastic carcinomas of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0181-C.1	0.1 ml
RA0181-C.5	0.5 ml



Cytokeratin 14 (KRT14)  
 (Squamous Cell Marker);  
 Clone LL002 (Concentrate)

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);  
Clone E3 (Ks17.E3) (Concentrate)**

Species: Mouse  
 Immunogen: The cytoskeletal fraction of rat colon epithelium  
 Clone: E3 (Ks17.E3)  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.  
 Positive Control: T24 cells or skin.  
 Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0182-C.1	0.1 ml
RA0182-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);  
Clone KRT17/778 (Concentrate)**

Species: Mouse  
 Immunogen: The cytoskeletal fraction of rat colon epithelium  
 Clone: KRT17/778  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.  
 Positive Control: T24 cells or skin.  
 Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0183-C.1	0.1 ml
RA0183-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone DA7 (Concentrate)**

Species: Mouse  
 Immunogen: Human breast cancer PMC 42 cells  
 Clone: DA7  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.  
 Positive Control: MCF-7, HeLa cells, or Breast Cancer.  
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0185-C.1	0.1 ml
RA0185-C.5	0.5 ml



**Cytokeratin 18 (KRT18); Clone DC10 (Concentrate)**

Species: Mouse  
 Immunogen: Human breast cancer PMC 42 cells  
 Clone: DC10  
 Isotype: IgG1  
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.  
 Positive Control: MCF-7, HeLa, A431 cells or Breast Cancer.  
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0184-C.1	0.1 ml
RA0184-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone DE-K18 (Concentrate)**

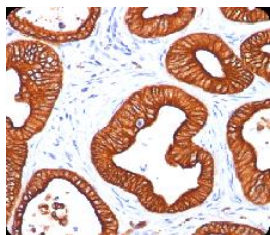
Species: Mouse  
 Immunogen: Cytoskeletal preparation extracted from the human vulvar squamous carcinoma cell line A431  
 Clone: DE-K18  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Dog and Cat. Others not known.  
 Positive Control: MCF-7, HeLa cells, or Breast Cancer.  
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0186-C.1	0.1 ml
RA0186-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone KRT18/834 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT18 protein  
 Clone: KRT18/834  
 Isotype: IgG1  
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.  
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.  
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0187-C.1	0.1 ml
RA0187-C.5	0.5 ml



Cytokeratin 18 (KRT18);  
 Clone DC10 (Concentrate)

**Cytokeratin 18 (KRT18); Clone KRT18/835 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT18 protein  
 Clone: KRT18/835  
 Isotype: IgG1  
 Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.  
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.  
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0188-C.1	0.1 ml
RA0188-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone KRT18/836 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT18 protein  
 Clone: KRT18/836  
 Isotype: IgG1  
 Species Reactivity: Human, Dog, and Cat. Others not known.  
 Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.  
 Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0189-C.1	0.1 ml
RA0189-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 & BA17 (Concentrate)**

Species: Mouse  
 Immunogen: Human breast cancer MCF-7 cells (A53-B/A2); Human mammary epithelial organoids (BA17)  
 Clone: A53-B/A2.26 & BA17  
 Isotype: IgG2a, kappa (A53-B/A2); IgG1, kappa (BA17)  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.  
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0192-C.1	0.1 ml
RA0192-C.5	0.5 ml



Cytokeratin 19 (KRT19) (Pancreatic  
 Stem Cell Marker); Clone A53-B/A2.26  
 & BA17 (Concentrate)



**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 (Ks19.1) (Concentrate)**

Species: Mouse  
 Immunogen: Human breast cancer MCF-7 cells  
 Clone: A53-B/A2.26 (Ks19.1)  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.  
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa. Its epitope maps between amino acids 312-335.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0190-C.1	0.1 ml
RA0190-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone BA17 (Concentrate)**

Species: Mouse  
 Immunogen: Human mammary epithelial organoids.  
 Clone: BA17  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: MCF-7, HeLa cells, breast cancer.  
 Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0191-C.1	0.1 ml
RA0191-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/799 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT19 protein  
 Clone: KRT19/799  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.  
 Specificity: This antibody reacts with human cytokeratin-19 (CK19), a polypeptide of 40kDa.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0193-C.1	0.1 ml
RA0193-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/800 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT19 protein  
 Clone: KRT19/800  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: MCF-7, HeLa cells, breast cancer.  
 Specificity: This antibody reacts with cytokeratin-19 (CK19), a polypeptide of 40kDa.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0194-C.1	0.1 ml
RA0194-C.5	0.5 ml

**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone K72.7 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified cytokeratin preparation.  
 Clone: K72.7  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.  
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0170-C.1	0.1 ml
RA0170-C.5	0.5 ml

**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone KRT7/760 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT7 protein  
 Clone: KRT7/760  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.  
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0171-C.1	0.1 ml
RA0171-C.5	0.5 ml

**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 & K72.7 (Concentrate)**

Species: Mouse  
 Immunogen: OTN 11, ovarian carcinoma cell line (OV-TL12/30); Semi-purified cytokeratin preparation (K72.7)  
 Clone: OV-TL12/30 & K72.7  
 Isotype: IgG1 (OV-TL12/30 & K72.7)  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.  
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0172-C.1	0.1 ml
RA0172-C.5	0.5 ml

### Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 (Concentrate)

Species: Mouse  
 Immunogen: OTN 11, ovarian carcinoma cell line  
 Clone: OV-TL12/30  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.  
 Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0169-C.1	0.1 ml
RA0169-C.5	0.5 ml

### Cytokeratin 8 (KRT8); Clone 34BH11 (Concentrate)

Species: Mouse  
 Immunogen: Cytoskeletal extract of a human hepatocellular carcinoma cell line (Hep3B)  
 Clone: 34BH11  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Monkey, and Rabbit. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0178-C.1	0.1 ml
RA0178-C.5	0.5 ml

### Cytokeratin 8 (KRT8); Clone H1 & TS1 (Concentrate)

Species: Mouse  
 Immunogen: Cytoskeleton preparation containing cytokeratin 8 (H1); Keratin preparation from a human carcinoma (TS1).  
 Clone: H1 & TS1  
 Isotype: IgG1 (H1); IgG1 (TS1).  
 Species Reactivity: Human, Rat and Zebrafish. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0176-C.1	0.1 ml
RA0176-C.5	0.5 ml

### Cytokeratin 8 (KRT8); Clone H1 (Concentrate)

Species: Mouse  
 Immunogen: Cytoskeleton preparation containing cytokeratin 8  
 Clone: H1  
 Isotype: IgG1  
 Species Reactivity: Human, Rat, Zebrafish. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0173-C.1	0.1 ml
RA0173-C.5	0.5 ml

### Cytokeratin 8 (KRT8); Clone K8/383 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human cytokeratin 8 protein  
 Clone: K8/383  
 Isotype: IgG1  
 Species Reactivity: Human, Rat, Zebrafish. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0174-C.1	0.1 ml
RA0174-C.5	0.5 ml

### Cytokeratin 8 (KRT8); Clone KRT8/818 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human KRT8 protein  
 Clone: KRT8/818  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0177-C.1	0.1 ml
RA0177-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone TS1 (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: TS1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: The epitope of this antibody is located between aa 343-357. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0175-C.1	0.1 ml
RA0175-C.5	0.5 ml

**Cytokeratin 8/18 (Epithelial Marker); Clone C-43 & DC10 (Concentrate)**

Species: Mouse  
 Immunogen: Cytoskeletal preparation from HeLa epithelioid carcinoma cells (C-43) and PMC-42 breast carcinoma cells of human origin (DC10)  
 Clone: C-43 & DC10  
 Isotype: IgG1, kappa (C-43); IgG1, kappa (DC10)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7, HeLa, PMC-42, or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0388-C.1	0.1 ml
RA0388-C.5	0.5 ml

**Cytokeratin 8/18 (Epithelial Marker); Clone K8.8 & DC10 (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma (K8.8); PMC-42 human breast carcinoma cells (DC10)  
 Clone: K8.8 & DC10  
 Isotype: IgG1, kappa (K8.8); IgG1, kappa (DC10)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.  
 Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0387-C.1	0.1 ml
RA0387-C.5	0.5 ml

**Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone AE-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken, Turtle. Others not known.  
 Positive Control: Skin, Squamous cell carcinoma (SCC).  
 Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0385-C.1	0.1 ml
RA0385-C.5	0.5 ml

**Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone KRTL (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: KRTL  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Skin, Squamous cell carcinoma (SCC).  
 Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0389-C.1	0.1 ml
RA0389-C.5	0.5 ml

**Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone 34BE12 (Concentrate)**

Species: Mouse  
 Immunogen: Solubilized keratin extract from human stratum corneum  
 Clone: 34BE12  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: PC12 cells, skin, prostate carcinoma.  
 Specificity: This antibody recognizes CK1, CK5, CK10, and CK14. In normal epithelia, it stains stratified epithelia, myoepithelial cells, and basal cells in the prostate gland and bronchi. This antibody shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules, or endometrial glands; there is no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors, and neuroendocrine tumors are negative with this antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0383-C.1	0.1 ml
RA0383-C.5	0.5 ml



Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone 34BE12 (Concentrate)

**Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone AE-3 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Epithelial cells, skin or adenocarcinomas.  
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0386-C.1	0.1 ml
RA0386-C.5	0.5 ml

**Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone KRTH (Concentrate)**

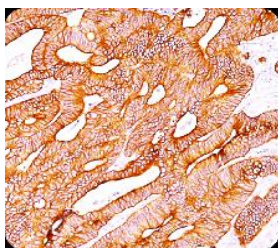
Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: KRTH  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Skin, Adenocarcinomas.  
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0390-C.1	0.1 ml
RA0390-C.5	0.5 ml

**Cytokeratin, Multi (Epithelial Marker); Clone C11 (Concentrate)**

Species: Mouse  
 Immunogen: Keratin-enriched preparation from cultured human A431  
 Clone: C11  
 Isotype: IgG1  
 Species Reactivity: Human, Cow, Rat, Mouse, Guinea pig, Frog, Goat, Marmoset, and Pig. Others not known.  
 Positive Control: A431 cells, skin, colon carcinoma.  
 Specificity: This antibody recognizes cytokeratins 4, 5, 6, 8, 10, 13, and 18.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0381-C.1	0.1 ml
RA0381-C.5	0.5 ml



Cytokeratin, Pan (Epithelial Marker); Clone AE-1 &amp; AE-3 (Concentrate)

**Cytokeratin, Pan (Epithelial Marker); Clone AE-1 & AE-3 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1 & AE-3  
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0382-C.1	0.1 ml
RA0382-C.5	0.5 ml

**Cytokeratin, Pan (Epithelial Marker); Clone KRTL & KRTH (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: KRTL & KRTH  
 Isotype: IgG1, kappa (KRTL); IgG1, kappa (KRTH)  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3, CK4, CK5, CK6, CK8, CK10, CK14, CK15, CK16, and CK19. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0391-C.1	0.1 ml
RA0391-C.5	0.5 ml

**Cytokeratin, pan (Epithelial Marker); Clone PAN-CK (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: PAN-CK  
 Isotype: IgG's, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and shows high sensitivity in the recognition of epithelial cells and carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0430-C.5	0.5 ml

**DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 & DOG-1.1 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human DOG-1 protein (DG1/447); A synthetic peptide from human DOG-1 protein (MSDFVDWVIPDIPKDISQQIHKEKVLMLVLFMREEQDKQQLLETCEMEK ERQKDEPPCNHHNTKACPDSLGSPPASHAYHGGVL), conjugated to a carrier protein (DOG-1.1).

Clone: DG1/447 &amp; DOG-1.1

Isotype: IgG1, kappa (DG1/447 &amp; DOG-1.1)

Species Reactivity: Human. Others not known.

Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Specificity: This monoclonal antibody recognizes Human DOG1. It is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs. It is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0364-C.1	0.1 ml
RA0364-C.5	0.5 ml

**DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human DOG-1 protein

Clone: DG1/447

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Specificity: This monoclonal antibody recognizes Human DOG1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0362-C.1	0.1 ml
RA0362-C.5	0.5 ml

**DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DOG-1.1 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide from human DOG-1 protein (MSDFVDWVIPDIPKDISQQIHKEKVLMLVLFMREEQDKQQLLETCEMEK ERQKDEPPCNHHNTKACPDSLGSPPASHAYHGGVL), conjugated to a carrier protein.

Clone: DOG-1.1

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Specificity: DOG1.1 is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs.

DOG1.1 is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0363-C.1	0.1 ml
RA0363-C.5	0.5 ml

**Double Stranded DNA (dsDNA) (Nuclear Marker); Clone 121-3 (Concentrate)**

Species: Mouse

Immunogen: Nuclei of Raji Burkitt's cells

Clone: 121-3

Isotype: IgG3, kappa

Species Reactivity: Human. Others not known.

Positive Control: Tonsil

Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0417-C.1	0.1 ml
RA0417-C.5	0.5 ml

**Double Stranded DNA (dsDNA) (Nuclear Marker); Clone AE-2 (Concentrate)**

Species: Mouse

Immunogen: Nuclei of Raji Burkitt's cells

Clone: AE-2

Isotype: IgG3, kappa

Species Reactivity: Human. Others not known.

Positive Control: Tonsil

Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0418-C.1	0.1 ml
RA0418-C.5	0.5 ml

**EGFR (Epidermal Growth Factor Receptor); Clone GFR450 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human EGFR protein

Clone: GFR450

Isotype: IgG2a, kappa

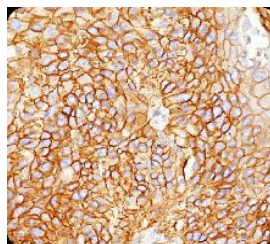
Species Reactivity: Human. Others not known.

Positive Control: A431 cells. Breast or bladder cancer.

Specificity: This antibody recognizes a protein of 170kDa, identified as EGFR.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0107-C.1	0.1 ml
RA0107-C.5	0.5 ml



EGFR (Epidermal Growth Factor Receptor); Clone GFR450 (Concentrate)



**Ep-CAM / CD326 (Epithelial Marker); Clone Ber-EP4 (Concentrate)**

Species: Mouse  
 Immunogen: Human breast cancer MCF-7 cells  
 Clone: Ber-EP4  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). In immunoprecipitation experiments, the Ber-EP4 antibody blocks the reaction of the HEA125 antibody with MCF-7 cell lysate and vice versa, showing that the two antibodies react with the same antigen. The two antibodies also produce identical staining results in cells and tissues. Of the 37 cell lines tested, the antibody homogeneously labels all (10/10) carcinoma cell lines, whereas all non-epithelial cell lines (26/27) are negative except for the erythromyeloid cell line K562.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0197-C.1	0.1 ml
RA0197-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/826 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TACSTD1 protein  
 Clone: EGP40/826  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0199-C.1	0.1 ml
RA0199-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/837 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TACSTD1 protein  
 Clone: EGP40/837  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0200-C.1	0.1 ml
RA0200-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone HEA125 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon cancer HT29 cells  
 Clone: HEA125  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). In immunoprecipitation experiments, the Ber-EP4 antibody blocks the reaction of the HEA125 antibody with MCF-7 cell lysate and vice versa, showing that the two antibodies react with the same antigen. The two antibodies also produce identical staining results in cells and tissues. Of the 37 cell lines tested, the antibody homogeneously labels all (10/10) carcinoma cell lines, whereas all non-epithelial cell lines (26/27) are negative except for the erythromyeloid cell line K562.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0198-C.1	0.1 ml
RA0198-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone MOC-31 (Concentrate)**

Species: Mouse  
 Immunogen: Neuraminidase treated GLS-1 human small cell lung carcinoma cells  
 Clone: MOC-31  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: The epitope of this antibody is located in the first EGF-like repeat domain (EGF1) between amino acids 27-59 of Ep-CAM. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0196-C.1	0.1 ml
RA0196-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone VU-1D9 (Concentrate)**

Species: Mouse  
 Immunogen: Small cell lung carcinoma cells  
 Clone: VU-1D9  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0195-C.1	0.1 ml
RA0195-C.5	0.5 ml



**ER beta-1 (Estrogen Receptor beta-1); Clone ERb455 (Concentrate)**

Species: Mouse  
 Immunogen: C-terminus fragment of recombinant human estrogen receptor beta protein  
 Clone: ERb455  
 Isotype: IgG2a  
 Species Reactivity: Human, Monkey, Mouse, Rat, Pig, Horse and Sheep. Others not known.  
 Positive Control: Ovarian, breast or prostate carcinoma.  
 Specificity: Nuclear positivity in estrogen receptor beta positive tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0111-C.1	0.1 ml
RA0111-C.5	0.5 ml

**Estrogen Receptor (Marker of Estrogen Dependence); Clone ER505 (Concentrate)**

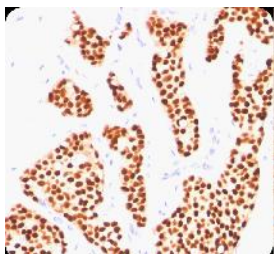
Species: Mouse  
 Immunogen: Recombinant human Estrogen Receptor alpha protein (aa 2-185)  
 Clone: ER505  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 cells or breast cancers.  
 Specificity: This antibody is specific to ER alpha and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0110-C.1	0.1 ml
RA0110-C.5	0.5 ml

**Fascin-1; Clone FSCN1/417 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human fascin protein  
 Clone: FSCN1/417  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa cells. Thymus, spleen or Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 55kDa, which is identified as fascin-1. This antibody to fascin-1 is a very sensitive marker for Reed-Sternberg cells and variants in nodular sclerosis, mixed cellularity, and lymphocyte depletion Hodgkin disease. It is uniformly negative in lymphoid cells, plasma cells, and myeloid cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0296-C.1	0.1 ml
RA0296-C.5	0.5 ml



Estrogen Receptor (Marker of Estrogen Dependence); Clone ER505 (Concentrate)

**GFAP (Astrocyte & Neural Stem Cell Marker); Clone ASTRO/789 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant GFAP protein  
 Clone: ASTRO/789  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0122-C.1	0.1 ml
RA0122-C.5	0.5 ml

**GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 & ASTRO/789 (Concentrate)**

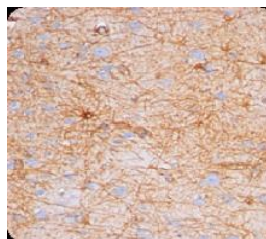
Species: Mouse  
 Immunogen: GFAP isolated from pig spinal cord (GA-5); Recombinant GFAP protein (ASTRO/789)  
 Clone: GA-5 & ASTRO/789  
 Isotype: IgG1 (GA-5); IgG1 (ASTRO/789)  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0123-C.1	0.1 ml
RA0123-C.5	0.5 ml

**GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 (Concentrate)**

Species: Mouse  
 Immunogen: GFAP isolated from pig spinal cord  
 Clone: GA-5  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0121-C.1	0.1 ml
RA0121-C.5	0.5 ml



GFAP (Astrocyte & Neural Stem Cell Marker); Clone GA-5 (Concentrate)

**Glycophorin A / CD235 (Erythrocyte Marker); Clone A63-B/C2 (Concentrate)**

Species: Mouse  
 Immunogen: Human erythrocytes treated with neuraminidase.  
 Clone: A63-B/C2  
 Isotype: IgM, kappa  
 Species Reactivity: Human and Cow. Others not tested.  
 Positive Control: Erythrocytes  
 Specificity: Recognizes a sialoglycoprotein of 39kDa, identified as glycophorin A. It reacts with a peptide epitope on the extracellular domain of human glycophorin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0130-C.1	0.1 ml
RA0130-C.5	0.5 ml

**Glycophorin A / CD235 (Erythrocyte Marker); Clone GPHN02 (Concentrate)**

Species: Mouse  
 Immunogen: Human erythrocytes treated with neuraminidase.  
 Clone: GPHN02  
 Isotype: IgM, kappa  
 Species Reactivity: Human and Cow. Others not tested.  
 Positive Control: Erythrocytes  
 Specificity: Recognizes a sialoglycoprotein of 39kDa, identified as glycophorin A. It reacts with a peptide epitope on the extracellular domain of human glycophorin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0129-C.1	0.1 ml
RA0129-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone 1G12 & GPC3/863 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment containing amino acids 511-580 of human glypican-3 (1G12); Recombinant human GPC3 protein (GPC3/863).  
 Clone: 1G12 & GPC3/863  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells or Hepatocellular carcinoma.  
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.

<u>Catalog Number</u>	<u>Volume</u>
RA0126-C.1	0.1 ml
RA0126-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone 1G12 (Concentrate)**

Species: Mouse  
 Immunogen: A recombinant fragment containing amino acids 511-580 of human glypican-3  
 Clone: 1G12  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells or Hepatocellular carcinoma.  
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0124-C.1	0.1 ml
RA0124-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular Carcinoma); Clone GPC3/863 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human GPC3 protein  
 Clone: GPC3/863  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells or Hepatocellular carcinoma.  
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0125-C.1	0.1 ml
RA0125-C.5	0.5 ml

**GnRH-Receptor / LH-RH Receptor; Clone A9E4 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of aa 1-29 (MANSASPEQNHCSAINNSIPLMQGNLPY) from the N-terminus of human GnRH receptor.  
 Clone: A9E4  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Predicted to react with Pig and Rabbit. Others not known.  
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.  
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0127-C.1	0.1 ml
RA0127-C.5	0.5 ml

**GnRH-Receptor / LH-RH Receptor; Clone HH7/768 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human GNRHR protein  
 Clone: HH7/768  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.  
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0128-C.1	0.1 ml
RA0128-C.5	0.5 ml

**gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 & PMEL/783 (Concentrate)**

Species: Mouse  
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant human SILV protein (PMEL/783)  
 Clone: HMB45 & PMEL/783  
 Isotype: IgG1, kappa (HMB45); IgG1, kappa (PMEL/783)  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-28 cells or Melanoma.  
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0294-C.1	0.1 ml
RA0294-C.5	0.5 ml

**gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes  
 Clone: HMB45  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Dog and Rat. Others not tested.  
 Positive Control: SK-MEL-28 cells or Melanoma.  
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0292-C.1	0.1 ml
RA0292-C.5	0.5 ml

**gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone PMEL/783 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human SILV protein  
 Clone: PMEL/783  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-28 cells or Melanoma.  
 Specificity: gp100, also designated ME20-M, ME20-S and PMEL 17, is classified as a melanocyte differentiation antigen and is expressed at low levels in normal cell lines and tissues, but is upregulated in melanocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0293-C.1	0.1 ml
RA0293-C.5	0.5 ml

**hCG Holo (Pregnancy & Choriocarcinoma Marker); Clone HCGab/52 (Concentrate)**

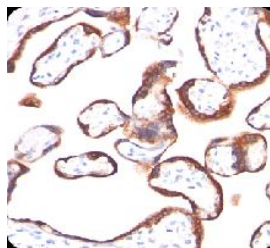
Species: Mouse  
 Immunogen: Purified hCG protein  
 Clone: HCGab/52  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This antibody is very specific because it reacts ONLY with intact hCG and not with either the free alpha- or free beta-chain of hCG.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0399-C.1	0.1 ml
RA0399-C.5	0.5 ml

**hCG-alpha; Clone HCGa/53 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG alpha protein  
 Clone: HCGa/53  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as the alpha subunit of hCG.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0086-C.1	0.1 ml
RA0086-C.5	0.5 ml



hCG-alpha; Clone HCGa/53 (Concentrate)

### **hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/459 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein  
 Clone: HCGb/459  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0088-C.1	0.1 ml
RA0088-C.5	0.5 ml

### **hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/54 & HCGb/459 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein (HCGb/54 and HCGb/459)  
 Clone: HCGb/54 & HCGb/459  
 Isotype: IgG1, kappa (HCGb/54 and HCGb/459)  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0089-C.1	0.1 ml
RA0089-C.5	0.5 ml

### **hCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/54 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein  
 Clone: HCGb/54  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0087-C.1	0.1 ml
RA0087-C.5	0.5 ml

### **Hepatocyte Specific Antigen (Hep Par 1) (Hepatocellular Marker); Clone OCH1E5 (Hep Par 1) (Concentrate)**

Species: Mouse  
 Immunogen: Extract of a formalin-fixed, rejected allograft of a human liver  
 Clone: OCH1E5; same as Hep Par 1  
 Isotype: IgG1  
 Species Reactivity: Human and Dog. Others not known.  
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).  
 Specificity: Hepatocyte Specific Antigen, also called Hepatocyte Paraffin 1 or Hep Par 1, localizes to the mitochondria of hepatocytes. It is a sensitive marker for distinguishing hepatocellular carcinomas (HCC) from other metastatic carcinomas as well as cholangio-carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0409-C.1	0.1 ml
RA0409-C.5	0.5 ml

### **Hepatocyte Specific Antigen (Hepatocellular Marker); Clone HSA98 (Concentrate)**

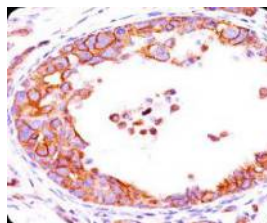
Species: Mouse  
 Immunogen: HEP-3B human hepatocellular carcinoma cells  
 Clone: HSA98  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).  
 Specificity: Clone HSA98 binds to human hepatocytes and the majority of human hepatocellular carcinomas (HCC's). In frozen sections, it stains hepatic cells and may be used as a marker of the liver. Cell preparations of hepatocellular carcinoma biopsies or cell lines are found to bind HSA98 on the cell surface. This antibody stains liver hepatocytes in frozen human liver sections and is positive on the cell surface of human liver carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0410-C.1	0.1 ml
RA0410-C.5	0.5 ml

### **HER-2 / c-erbB-2 / neu / CD340; Clone ERB2/776 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant intracellular domain of human HER-2 protein  
 Clone: ERB2/776  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: SKBR-3 cells or breast cancers.  
 Specificity: This antibody is specific to HER-2/c-erbB-2 and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0109-C.1	0.1 ml
RA0109-C.5	0.5 ml



HER-2 / c-erbB-2 / neu / CD340;  
 Clone HRB2/451 (Concentrate)

**HER-2 / c-erbB-2 / neu / CD340; Clone HRB2/451 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HER-2 protein  
 Clone: HRB2/451  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: SKBR-3 cells or breast cancers.  
 Specificity: This antibody is specific to HER-2/c-erbB-2 and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0108-C.1	0.1 ml
RA0108-C.5	0.5 ml

**HPV-16 (Human Papilloma Virus 16); Clone CAMVIR-1 (Concentrate)**

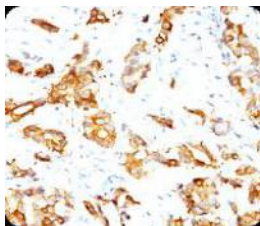
Species: Mouse  
 Immunogen: Human papilloma virus type 16, major capsid protein L1  
 Clone: CAMVIR-1  
 Isotype: IgG2a, kappa  
 Species Reactivity: Type 16 of human Papilloma Virus (HPV-16).  
 Positive Control: HPV-16 infected cells or cervical tissue.  
 Specificity: Reacts with a protein of 57kDa, identified as the L1 protein of human papilloma virus type 16 (HPV-16). The antibody reacts very strongly with formalin-fixed, paraffin-embedded tissues containing HPV-16 or -33; very weak reactions were occasionally observed with biopsy specimens or smears containing HPV-6 or HPV-11. It cross-reacts with HPV37.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0380-C.1	0.1 ml
RA0380-C.5	0.5 ml

**HSP27 (Heat Shock Protein 27); Clone 24K/774 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HSPB1 protein.  
 Clone: 24K/774  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.  
 Positive Control: ~50% of breast carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0132-C.1	0.1 ml
RA0132-C.5	0.5 ml



HSP27 (Heat Shock Protein 27); Clone G3.1 (Concentrate)

**HSP27 (Heat Shock Protein 27); Clone G3.1 (Concentrate)**

Species: Mouse  
 Immunogen: Partially purified HSP27 (earlier called 24K) protein from breast cancer MCF-7 cells.  
 Clone: G3.1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.  
 Positive Control: ~50% of Breast Carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0131-C.1	0.1 ml
RA0131-C.5	0.5 ml

**HSP60 (Heat Shock Protein 60); Clone HLD4/780 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HSPD1 protein  
 Clone: HLD4/780  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, and Drosophila. Does not react with Bacteria, Helminths, and Spinach. Others not known.  
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.  
 Specificity: Recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0134-C.1	0.1 ml
RA0134-C.5	0.5 ml

**HSP60 (Heat Shock Protein 60); Clone LK1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HSP60 protein  
 Clone: LK1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, and Drosophila. Does not react with Bacteria, Helminths, and Spinach. Others not known.  
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.  
 Specificity: This antibody recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60). Its epitope is localized between aa 383-447 of human HSP60. Clone LK1, unlike LK2, recognizes only the mammalian (not bacterial) HSP60 and is useful in distinguishing HSP60 from mammals and bacteria.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0133-C.1	0.1 ml
RA0133-C.5	0.5 ml

**Human Nuclear Antigen (HNA) (Nuclear Marker); Clone 235-1 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of human myeloid leukemia biopsy cells  
 Clone: 235-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Primates. Does not react with Mouse, Rat and Chicken. Others not known.  
 Positive Control: All human cells. Tonsil.  
 Specificity: Clone 235-1 recognizes an antigen associated with the nuclei in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0403-C.1	0.1 ml
RA0403-C.5	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone GA01 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human alpha heavy chain  
 Clone: GA01  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0137-C.1	0.1 ml
RA0137-C.5	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 & GA01 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgA  
 Clone: HISA3 & GA01  
 Isotype: IgG1, kappa (HISA3 & GA01)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0138-C.1	0.1 ml
RA0138-C.5	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgA  
 Clone: HISA3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0136-C.1	0.1 ml
RA0136-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone B33/20 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: B33/20  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as gamma heavy chain of human immunoglobulins. Its epitope maps in the CH2 domain of the Fc region of IgG. It reacts with all sub-classes of gamma chain of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0142-C.1	0.1 ml
RA0142-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 & IG266 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: IG217 & IG266  
 Isotype: IgG1, kappa (IG217); IgG2a, kappa (IG266)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This antibody is specific to heavy chain of IgG and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Gamma heavy chain (IgG1, IgG2a, IgG2b, IgG3).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0141-C.1	0.1 ml
RA0141-C.5	0.5 ml



**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: IG217  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0139-C.1	0.1 ml
RA0139-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG266 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: IG266  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0140-C.1	0.1 ml
RA0140-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone DA4-4 (SA-DA4 or HB57) (Concentrate)**

Species: Mouse  
 Immunogen: Heavy chain of human IgM  
 Clone: DA4-4 (SA-DA4 or HB57)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0144-C.1	0.1 ml
RA0144-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone ICO-30 (Concentrate)**

Species: Mouse  
 Immunogen: Heavy chain of human IgM  
 Clone: ICO-30  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0143-C.1	0.1 ml
RA0143-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 & ICO-30 (Concentrate)**

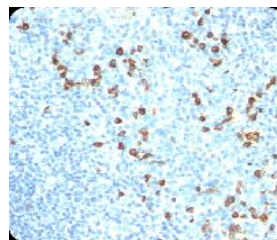
Species: Mouse  
 Immunogen: Recombinant heavy chain of human IgM (IM260); Heavy chain of human IgM (ICO-30)  
 Clone: IM260 & ICO-30  
 Isotype: IgG1, kappa (IM260 & ICO-30)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as the mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD) heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0147-C.1	0.1 ml
RA0147-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant heavy chain of human IgM  
 Clone: IM260  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0145-C.1	0.1 ml
RA0145-C.5	0.5 ml



IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 (Concentrate)

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM373 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant heavy chain of human IgM  
 Clone: IM373  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0146-C.1	0.1 ml
RA0146-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone 2D11-H5 (INS05) (Concentrate)**

Species: Mouse  
 Immunogen: Purified pig insulin, conjugated to KLH  
 Clone: 2D11-H5 (INS05)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0161-C.1	0.1 ml
RA0161-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 & 2D11-H5 (INS04 & INS05) (Concentrate)**

Species: Mouse  
 Immunogen: Purified pig insulin, conjugated to KLH  
 Clone: E2-E3 & 2D11-H5 (INS04 & INS05)  
 Isotype: IgG1, kappa (E2-E3); IgG1, kappa (2D11-H5)  
 Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0163-C.1	0.1 ml
RA0163-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 (INS04) (Concentrate)**

Species: Mouse  
 Immunogen: Purified pig insulin, conjugated to KLH  
 Clone: E2-E3 (INS04)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0162-C.1	0.1 ml
RA0162-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/794 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant INS protein  
 Clone: IRDN/794  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0164-C.1	0.1 ml
RA0164-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/805 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant INS protein  
 Clone: IRDN/805  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow, Pig, Rabbit and Rat. Others not known. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0165-C.1	0.1 ml
RA0165-C.5	0.5 ml

**Involucrin (Squamous Cell Terminal Differentiation Marker); Clone IVRN/827 (Concentrate)**

Species: Mouse  
 Immunogen: Purified involucrin from human keratinocytes  
 Clone: IVRN/827  
 Isotype: IgG1, kappa  
 dysplasias of the larynx and cervix.  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.  
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0167-C.1	0.1 ml
RA0167-C.5	0.5 ml

**Involucrin (Squamous Cell Terminal Differentiation Marker); Clone SY5 (Concentrate)**

Species: Mouse  
 Immunogen: Purified involucrin from human keratinocytes  
 Clone: SY5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Gorilla, Owl monkey, Pig, and Dog. Does not react with Mouse. Others not known.  
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.  
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0166-C.1	0.1 ml
RA0166-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone HP6053 & L1C1 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig kappa chain (HP6053); Human B-Lymphoma Cells (L1C1)  
 Clone: HP6053 & L1C1  
 Isotype: IgG1, kappa (HP6053); IgG1, kappa (L1C1)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0152-C.1	0.1 ml
RA0152-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone HP6053 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig kappa chain  
 Clone: HP6053  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0151-C.1	0.1 ml
RA0151-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone Kap-56 (Concentrate)**

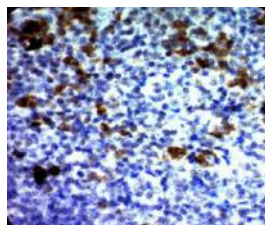
Species: Mouse  
 Immunogen: Human lymphocytes stimulated  
 Clone: Kap-56  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0154-C.1	0.1 ml
RA0154-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone KLC264 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Ig kappa chain  
 Clone: KLC264  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0149-C.1	0.1 ml
RA0149-C.5	0.5 ml



Kappa Light Chain (B-Cell marker); Clone KLC264 (Concentrate)

**Kappa Light Chain (B-Cell marker); Clone KLC709 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Ig kappa chain  
 Clone: KLC709  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0153-C.1	0.1 ml
RA0153-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone L1C1 (Concentrate)**

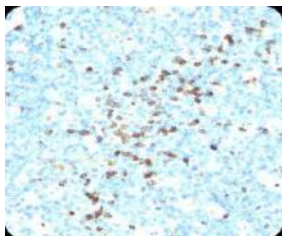
Species: Mouse  
 Immunogen: Human B-Lymphoma Cells  
 Clone: L1C1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0148-C.1	0.1 ml
RA0148-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone TB28-2 (Concentrate)**

Species: Mouse  
 Immunogen: Human IgG-kappa myeloma protein  
 Clone: TB28-2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0150-C.1	0.1 ml
RA0150-C.5	0.5 ml



Kappa Light Chain (B-Cell marker); Clone TB28-2 (Concentrate)

**KBA.62 (Melanoma Associated Antigen); Clone KBA.62 (Concentrate)**

Species: Mouse  
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma  
 Clone: KBA.62  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Melanoma  
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0416-C.1	0.1 ml
RA0416-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone HP6054 (Concentrate)**

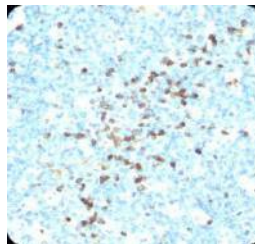
Species: Mouse  
 Immunogen: Purified human IgG myeloma proteins coupled to polyaminostyrene microbeads.  
 Clone: HP6054  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0156-C.1	0.1 ml
RA0156-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone ICO-106 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG  
 Clone: ICO-106  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0155-C.1	0.1 ml
RA0155-C.5	0.5 ml



Lambda Light Chain (B-Cell Marker); Clone ICO-106 (Concentrate)

**Lambda Light Chain (B-Cell Marker); Clone LAM03 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human lambda light chain  
 Clone: LAM03  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0158-C.1	0.1 ml
RA0158-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone Lamb14 (Concentrate)**

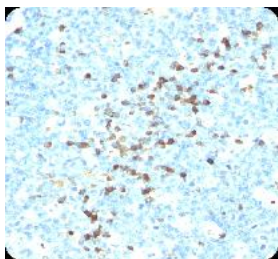
Species: Mouse  
 Immunogen: Purified human lambda light chain  
 Clone: Lamb14  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0160-C.1	0.1 ml
RA0160-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone LcN-2 & ICO-106 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG (LcN-2 & ICO-106)  
 Clone: LcN-2 & ICO-106  
 Isotype: IgG2a, kappa (LcN-2); IgG1, kappa (ICO-106)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0159-C.1	0.1 ml
RA0159-C.5	0.5 ml



Lambda Light Chain (B-Cell Marker); Clone LcN-2 & ICO-106 (Concentrate)

**Lambda Light Chain (B-Cell Marker); Clone LcN-2 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG  
 Clone: LcN-2  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0157-C.1	0.1 ml
RA0157-C.5	0.5 ml

**Macrophage Marker (Calgranulin A/B); Clone CAG/426 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Calgranulin protein  
 Clone: CAG/426  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.  
 Positive Control: Tonsil, lymph node, or spleen.  
 Specificity: Recognizes a 12-14kDa subunit of Calgranulin A/B (also known as S100A8/A9 or MRP-8/14); this protein is expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0288-C.1	0.1 ml
RA0288-C.5	0.5 ml

**Macrophage Marker (Macrophage L1 Protein) (Calprotectin); Clone MAC387 (Concentrate)**

Species: Mouse  
 Immunogen: Affinity purified monocyte membrane preparation  
 Clone: MAC387  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.  
 Positive Control: Tonsil, lymph node, or spleen.  
 Specificity: This antibody recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprised of 12-14kDa subunits expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0287-C.1	0.1 ml
RA0287-C.5	0.5 ml



### Macrophage Marker (Myeloid-Related Proteins 8/14) (MRP-8/MRP-14); Clone MRP/840 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human MRP protein  
 Clone: MRP/840  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.  
 Positive Control: Tonsil, lymph node, or spleen.  
 Specificity: Recognizes a 12-14kDa subunit of MRP-8/14 (also known as Calgranulin A/B or S100A8/A9); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.  
 Status: RUO

Catalog Number	Volume
RA0290-C.1	0.1 ml
RA0290-C.5	0.5 ml

### Macrophage Marker (S100A8/A9); Clone S100/722 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human S100 protein  
 Clone: S100/722  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.  
 Positive Control: Tonsil, lymph node, or spleen.  
 Specificity: Recognizes a 12-14kDa subunit of S100A8/A9 (also known as Calgranulin A/B or MRP-8/14); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.  
 Status: RUO

Catalog Number	Volume
RA0289-C.1	0.1 ml
RA0289-C.5	0.5 ml

### MAGE-1 (Target for Cancer Immunotherapy); Clone MA454 (Concentrate)

Species: Mouse  
 Immunogen: Human MAGE-A1 full length recombinant protein  
 Clone: MA454  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat and Dog. Others not known.  
 Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.  
 Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.  
 Status: RUO

Catalog Number	Volume
RA0201-C.1	0.1 ml
RA0201-C.5	0.5 ml

### MAGE-1 (Target for Cancer Immunotherapy); Clone MZ2E/838 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human MAGEA1 protein  
 Clone: MZ2E/838  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.  
 Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.  
 Status: RUO

Catalog Number	Volume
RA0202-C.1	0.1 ml
RA0202-C.5	0.5 ml

### Major Vault Protein (MVP); Clone 1014 (Concentrate)

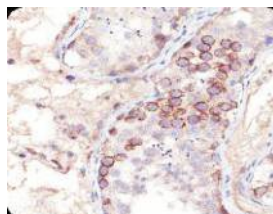
Species: Mouse  
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells  
 Clone: 1014  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MCF-7/HeLa cells, breast tumors.  
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).  
 Status: RUO

Catalog Number	Volume
RA0349-C.1	0.1 ml
RA0349-C.5	0.5 ml

### Major Vault Protein (MVP); Clone 1032 (Concentrate)

Species: Mouse  
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells  
 Clone: 1032  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MCF-7/HeLa cells, breast tumors.  
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).  
 Status: RUO

Catalog Number	Volume
RA0350-C.1	0.1 ml
RA0350-C.5	0.5 ml



MAGE-1 (Target for Cancer Immunotherapy); Clone MA454 (Concentrate)



**MALT1 (MALT-Lymphoma Marker); Clone MT1/410 (Concentrate)**

Species: Mouse  
 Immunogen: Human MALT1 recombinant fragment (aa 701-808)  
 Clone: MT1/410  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, Daudi, or HeLa cells. Tonsil or lymphoma.  
 Specificity: Highly expressed in peripheral blood mononuclear cells. Detected at lower levels in bone marrow, thymus and lymph node, and at very low levels in colon and lung.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0352-C.1	0.1 ml
RA0352-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein  
 Clone: A103  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0114-C.1	0.1 ml
RA0114-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103, M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (A103; M2-7C10; M2-9E3)  
 Clone: A103, M2-7C10 & M2-9E3  
 Isotype: IgG1 (A103); IgG2b (M2-7C10 & M2-9E3)  
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0115-C.1	0.1 ml
RA0115-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone DT101 & BC199 (Concentrate)**

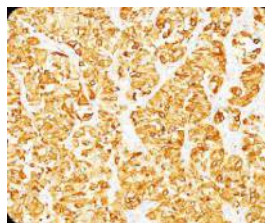
Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199)  
 Clone: DT101 & BC199  
 Isotype: IgG2b, kappa (DT101 & BC199)  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0117-C.1	0.1 ml
RA0117-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3)  
 Clone: M2-7C10 & M2-9E3  
 Isotype: IgG2b, kappa (M2-7C10 & M2-9E3)  
 Species Reactivity: Human, Mouse and Rat. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0116-C.1	0.1 ml
RA0116-C.5	0.5 ml



MART-1 / Melan-A / MLANA (Melanoma Marker); Clone DT101 & BC199 (Concentrate)

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone M2-7C10 (Concentrate)**

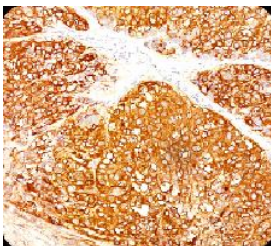
Species: Mouse  
 Immunogen: Recombinant hMART-1 protein  
 Clone: M2-7C10  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0112-C.1	0.1 ml
RA0112-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone M2-9E3 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein  
 Clone: M2-9E3  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Mouse and Rat. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0113-C.1	0.1 ml
RA0113-C.5	0.5 ml



Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone A103, T311, & HMB45 (Concentrate)

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone MLANA/788 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MLANA protein  
 Clone: MLANA/788  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0118-C.1	0.1 ml
RA0118-C.5	0.5 ml

**Melanoma Marker (MART-1 & gp100); Clone DT101, BC199, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45).  
 Clone: DT101, BC199, & HMB45  
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This antibody cocktail recognizes two melanoma-specific proteins which include MART-1 and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0413-C.1	0.1 ml
RA0413-C.5	0.5 ml

**Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone A103, T311, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (A103); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).  
 Clone: A103, T311, & HMB45  
 Isotype: IgG1 (A103); IgG2a (T311); IgG1 (HMB45).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0412-C.1	0.1 ml
RA0412-C.5	0.5 ml

**Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone DT101, BC199, T311, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant tyrosinase protein (T311).  
 Clone: DT101, BC199, T311, & HMB45  
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45); IgG2a (T311).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.  
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0414-C.1	0.1 ml
RA0414-C.5	0.5 ml

**Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone M2-7C10, M2-9E3, T311, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).  
 Clone: M2-7C10, M2-9E3, T311, & HMB45  
 Isotype: IgG2b (M2-7C10 & M2-9E3); IgG2a (T311); IgG1 (HMB45).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.  
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0411-C.1	0.1 ml
RA0411-C.5	0.5 ml

**Microphthalmia Transcription Factor (MITF); Clone D5 & MITF/915 (Concentrate)**

Species: Mouse  
 Immunogen: N-terminal fragment of human MITF protein (D5); Recombinant human MITF protein (MITF/915)  
 Clone: D5 & MITF/915  
 Isotype: IgG1, kappa (D5); IgG1, kappa (MITF/915)  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.  
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0210-C.1	0.1 ml
RA0210-C.5	0.5 ml

**Microphthalmia Transcription Factor (MITF); Clone D5 (Concentrate)**

Species: Mouse  
 Immunogen: N-terminal fragment of human MITF protein  
 Clone: D5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.  
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0207-C.1	0.1 ml
RA0207-C.5	0.5 ml

**Microphthalmia Transcription Factor (MITF); Clone MITF/915 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MITF protein  
 Clone: MITF/915  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Dog. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.  
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0208-C.1	0.1 ml
RA0208-C.5	0.5 ml

**Mitochondria (Marker for Human Cells); Clone AE-1 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified mitochondrial preparation  
 Clone: AE-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0396-C.1	0.1 ml
RA0396-C.5	0.5 ml

**Mitochondria (Marker for Human Cells); Clone MTC02 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified mitochondrial preparation  
 Clone: MTC02  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0393-C.1	0.1 ml
RA0393-C.5	0.5 ml

**Mitochondria (Marker for Human Cells, Granular RCC's & Salivary Tumors); Clone 113-1 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified mitochondrial preparation  
 Clone: 113-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells. It can be used to stain mitochondria in cell or tissue preparations and can be used as a mitochondrial marker in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0392-C.1	0.1 ml
RA0392-C.5	0.5 ml

**Mitochondrial Marker; Clone MTC719 (Concentrate)**

Species: Mouse  
 Immunogen: Mitochondrial fraction of HeLa cells  
 Clone: MTC719  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity. Does not react with insects or bacteria.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0394-C.1	0.1 ml
RA0394-C.5	0.5 ml

**Mitochondrial Marker; Clone MTC754 (Concentrate)**

Species: Mouse  
 Immunogen: Mitochondrial fraction of HeLa cells  
 Clone: MTC754  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity including insects and bacteria.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0395-C.1	0.1 ml
RA0395-C.5	0.5 ml

**Moesin; Clone MSN491 (Concentrate)**

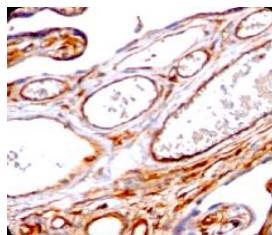
Species: Mouse  
 Immunogen: Recombinant human moesin protein  
 Clone: MSN491  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT-29, CH3LC, or HUVEC cells. Uterus, placenta, tonsil (both B- and T-lymphocytes), skeletal muscle, thyroid, or kidney.  
 Specificity: This antibody recognizes the 78kDa moesin protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0211-C.1	0.1 ml
RA0211-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone 139H2 (Concentrate)**

Species: Mouse  
 Immunogen: Human milk-fat globule membranes  
 Clone: 139H2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.  
 Specificity: 139H2 reacts with MUC1, a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The dominant epitope of 139H2 has not yet been determined. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0217-C.1	0.1 ml
RA0217-C.5	0.5 ml



Moesin;  
 Clone MSN491 (Concentrate)

**MUC1 / EMA / CD227 (Epithelial Marker); Clone E29 (Concentrate)**

Species: Mouse

Immunogen: Delipidated extract of human milk fat globule membranes

Clone: E29

Isotype: IgG2a, kappa

Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

Catalog Number	Volume
RA0214-C.1	0.1 ml
RA0214-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 & E29 (Concentrate)**

Species: Mouse

Immunogen: Human milk fat globule membranes (GP1.4); Delipidated extract of human milk fat globule membranes (E29).

Clone: GP1.4 &amp; E29

Isotype: IgG1, kappa (GP1.4); IgG2a, kappa (E29)

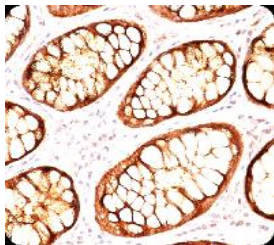
Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

Catalog Number	Volume
RA0215-C.1	0.1 ml
RA0215-C.5	0.5 ml



MUC1 / EMA / CD227 (Epithelial Marker);  
Clone GP1.4 & E29 (Concentrate)

**MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 (Concentrate)**

Species: Mouse

Immunogen: Human milk fat globule membranes

Clone: GP1.4

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

Catalog Number	Volume
RA0212-C.1	0.1 ml
RA0212-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone HMPV (Concentrate)**

Species: Mouse

Immunogen: Human breast cancer cell line ZR-75 cells

Clone: HMPV

Isotype: IgM, kappa

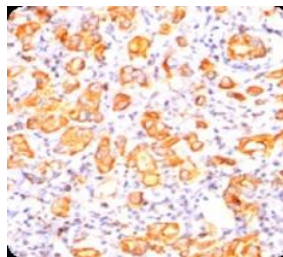
Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: HMPV recognizes full-length MUC1 in a glycosylation-independent manner and can bind to the fully glycosylated protein. The dominant epitope of HMPV is APDTR in the VNTR region. It reacts with the core peptide of the MUC1 protein. This antibody has been shown to react with both normal and malignant epithelia of various tissues including breast and colon.

Status: RUO

Catalog Number	Volume
RA0218-C.1	0.1 ml
RA0218-C.5	0.5 ml



MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 (Concentrate)



**MUC1 / EMA / CD227 (Epithelial Marker); Clone PEM/845 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MUC1 protein  
 Clone: PEM/845  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.  
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0216-C.1	0.1 ml
RA0216-C.5	0.5 ml

**MUC2 (Mucin 2); Clone CCP58 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of 29 amino acids, KYPTTTPISITTTMVTPTPTGTQTPPTT from MUC2 protein, coupled to KLH.  
 Clone: CCP58  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: LS174T cells or small intestine.  
 Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0219-C.1	0.1 ml
RA0219-C.5	0.5 ml

**MUC2 (Mucin 2); Clone MLP/842 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MUC2 protein  
 Clone: MLP/842  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: LS174T cells or small intestine.  
 Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0220-C.1	0.1 ml
RA0220-C.5	0.5 ml

**MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)**

Species: Mouse  
 Immunogen: M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient.  
 Clone: 45M1  
 Isotype: IgG1, kappa  
 Positive Control: Stomach  
 Cellular Localization: Cytoplasmic  
 Specificity: This antibody recognizes the peptide core of gastric mucin M1 (>1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases, but not by periodate treatment. This antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon, but it does not react with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.

Status: RUO

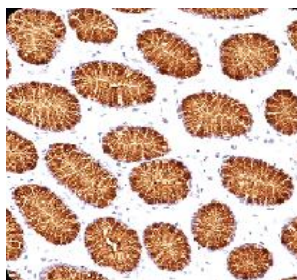
<u>Catalog Number</u>	<u>Volume</u>
RA0221-C.1	0.1 ml
RA0221-C.5	0.5 ml

**MUC5AC (Mucin 5AC / Gastric Mucin); Clone CLH2 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of human MUC5AC tandem repeat.  
 Clone: CLH2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0222-C.1	0.1 ml
RA0222-C.5	0.5 ml



MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)



**MUC5AC (Mucin 5AC / Gastric Mucin); Clone MUC5AC/917 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MUC5AC protein  
 Clone: MUC5AC/917  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0223-C.1	0.1 ml
RA0223-C.5	0.5 ml

**MUC6 (Mucin 6 / Gastric Mucin); Clone CLH5 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of the Gastric Mucin 6 tandem repeat sequence  
 Clone: CLH5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0224-C.1	0.1 ml
RA0224-C.5	0.5 ml

**MUC6 (Mucin 6 / Gastric Mucin); Clone MUC6/916 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MUC6 protein  
 Clone: MUC6/916  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0225-C.1	0.1 ml
RA0225-C.5	0.5 ml

**Myeloid Cell Marker (Macrophage / Granulocyte Marker); Clone BM-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells  
 Clone: BM-1  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: HL60 cells. Bone marrow, lymph node or tonsil.  
 Specificity: Recognizes a 183kDa protein with DNA-binding characteristics, which is identified as a myeloid specific antigen. Clone BM-1 reacts with myeloid precursor cells and granulocytes in bone marrow. Its antigen appears to be restricted to M2 and M3 acute myelogenous leukemia (AML) subtypes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0400-C.1	0.1 ml
RA0400-C.5	0.5 ml

**Myeloid-Associated Differentiation Marker (MYADM); Clone BM-2 (Concentrate)**

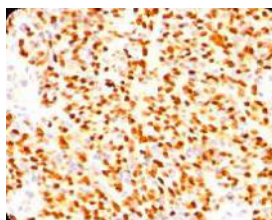
Species: Mouse  
 Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes  
 Clone: BM-2  
 Isotype: IgG1  
 Species Reactivity: Human and Macaque Monkey. Others not known.  
 Positive Control: HL60 cells. Tonsil or lymph node.  
 Specificity: Recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0366-C.1	0.1 ml
RA0366-C.5	0.5 ml

**MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A & MYD712 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant mouse MyoD1 protein (5.8A); Recombinant human MyoD1 protein (MYD712)  
 Clone: 5.8A & MYD712  
 Isotype: IgG1, kappa (5.8A); IgG1, kappa (MYD712)  
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.  
 Positive Control: Rhabdomyosarcoma  
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0233-C.1	0.1 ml
RA0233-C.5	0.5 ml



MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A & MYD712 (Concentrate)

**MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant mouse MyoD1 protein  
 Clone: 5.8A  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.  
 Positive Control: Rhabdomyosarcoma  
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. The epitope of this antibody maps between amino acids 180-189 in the C-terminal region of the mouse MyoD1 protein. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0231-C.1	0.1 ml
RA0231-C.5	0.5 ml

**MyoD1 (Rhabdomyosarcoma Marker); Clone MYD712 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MyoD1 protein  
 Clone: MYD712  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Rhabdomyosarcoma  
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0232-C.1	0.1 ml
RA0232-C.5	0.5 ml

**Myogenin (Skeletal Muscle Marker); Clone F5D (Concentrate)**

Species: Mouse  
 Immunogen: Rat myogenin peptide (aa 73-94) followed by rat myogenin recombinant fragment (aa 30-224) (Epitope aa 138-158)  
 Clone: F5D  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Dog, Cat, and Pig. Others not known.  
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.  
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0235-C.1	0.1 ml
RA0235-C.5	0.5 ml

**Myogenin (Skeletal Muscle Marker); Clone MGN185 & F5D (Concentrate)**

Species: Mouse  
 Immunogen: Human myogenin recombinant protein (MGN185); Rat myogenin recombinant fragment containing amino acid 30-224 (F5D)  
 Clone: MGN185 & F5D  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Cat, and Pig. Others not known.  
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.  
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0236-C.1	0.1 ml
RA0236-C.5	0.5 ml

**Myogenin (Skeletal Muscle Marker); Clone MGN185 (Concentrate)**

Species: Mouse  
 Immunogen: Human myogenin recombinant protein  
 Clone: MGN185  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Cat and Pig. Others not known.  
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.  
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0234-C.1	0.1 ml
RA0234-C.5	0.5 ml

**Neurofilament (H & L) (Neuronal Marker); Clone NF421 & NFL/736 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human neurofilament heavy subunit (NF421) & light subunit (NFL/736).  
 Clone: NF421 & NFL/736  
 Isotype: IgG1 NF421; IgG1 NFL/736  
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig. Others not known.  
 Positive Control: Brain and Neuroblastoma.  
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0408-C.1	0.1 ml
RA0408-C.5	0.5 ml

**Neurofilament (H & L) (Neuronal Marker); Clone RT97 & NR-4 (Concentrate)**

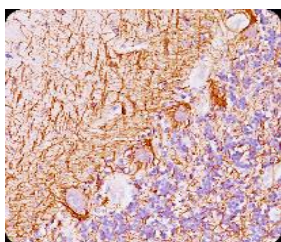
Species: Mouse  
 Immunogen: Triton-X 100 insoluble protein fraction of rat brain (RT-97); Pig neurofilament light sub-unit (NR-4).  
 Clone: RT97 & NR-4  
 Isotype: IgG1 (RT97); IgG1 (NR-4)  
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig.  
 Others not known.  
 Positive Control: Brain and Neuroblastoma.  
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0407-C.1	0.1 ml
RA0407-C.5	0.5 ml

**Neurofilament (NF-H) (Neuronal Marker); Clone NF421 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human neurofilament protein  
 Clone: NF421  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Pig and Chicken.  
 Others not known.  
 Positive Control: Brain, Neuroblastoma.  
 Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0243-C.1	0.1 ml
RA0243-C.5	0.5 ml



Neurofilament (NF-H) (Neuronal Marker);  
 Clone NF421 (Concentrate)

**Neurofilament (NF-H) (Neuronal Marker); Clone RT97 (Concentrate)**

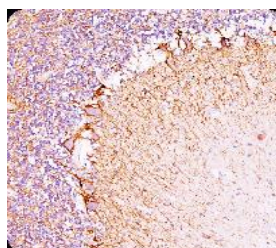
Species: Mouse  
 Immunogen: Triton-X 100 insoluble protein fraction of rat brain  
 Clone: RT97  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Pig and Chicken.  
 Others not known.  
 Positive Control: Brain, Neuroblastoma.  
 Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0244-C.1	0.1 ml
RA0244-C.5	0.5 ml

**Neurofilament (NF-L) (Neuronal Marker); Clone NFL/736 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human NF-L protein  
 Clone: NFL/736  
 Isotype: IgG1  
 Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.  
 Positive Control: Brain, Neuroblastoma.  
 Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0246-C.1	0.1 ml
RA0246-C.5	0.5 ml



Neurofilament (NF-H) (Neuronal Marker);  
 Clone RT97 (Concentrate)

**Neurofilament (NF-L) (Neuronal Marker); Clone NR-4 (Concentrate)**

Species: Mouse

Immunogen: Pig neurofilament, light sub-unit (NF-L)

Clone: NR-4

Isotype: IgG1

Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.

Positive Control: Brain, Neuroblastoma.

Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0245-C.1	0.1 ml
RA0245-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 & NTR/912 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human p75 NGFR protein

Clone: NGFR5 &amp; NTR/912

Isotype: IgG1, kappa (NGFR5); IgG1, kappa (NTR/912)

Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intra-lobular fibroblasts of breast ducts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0249-C.1	0.1 ml
RA0249-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 (Concentrate)**

Species: Mouse

Immunogen: NGFR from A875 melanoma cells

Clone: NGFR5

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Baboon, Cat, Rabbit and Ferret. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as the low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Its epitope resides within aa 1-160 of the extracellular domain of NGFR/NTR.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0247-C.1	0.1 ml
RA0247-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NTR/912 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human p75 NGFR protein

Clone: NTR/912

Isotype: IgG1, kappa

Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intra-lobular fibroblasts of breast ducts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0248-C.1	0.1 ml
RA0248-C.5	0.5 ml

**NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker); Clone NX2/294 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human NKX2.2 protein  
 Clone: NX2/294  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Mouse, Rat and Chicken. Others not known.  
 Positive Control: Pancreas or Ewing sarcoma.  
 Specificity: The NKX2.2 protein was identified as a target of EWS-FLI-1, the fusion protein specific to Ewing sarcoma, and was shown to be differentially upregulated in Ewing sarcoma on the basis of array-based gene expression analysis. It acts as a valuable marker for Ewing sarcoma, with a sensitivity of 93% and a specificity of 89%, and aids in the differential diagnosis of small round cell tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0250-C.1	0.1 ml
RA0250-C.5	0.5 ml

**Nuclear Membrane Marker; Clone AE-5 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of myeloid leukemia biopsy cells  
 Clone: AE-5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil.  
 Specificity: This antibody recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0402-C.1	0.1 ml
RA0402-C.5	0.5 ml

**Nuclear Membrane Marker; Clone NM97 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of myeloid leukemia biopsy cells  
 Clone: NM97  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human cell lines or tonsil.  
 Specificity: Clone NM97 recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0401-C.1	0.1 ml
RA0401-C.5	0.5 ml

**Nuclear Mitotic Apparatus Protein (NuMA); Clone A73-B/D12 (Concentrate)**

Species: Mouse  
 Immunogen: Colon carcinoma 174T cells  
 Clone: A73-B/D12  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Exponentially growing any cultured human cells. Tonsil or lymph node.  
 Specificity: Recognizes a phosphorylated protein of 228kDa, identified as nuclear mitotic apparatus protein (NuMA). Its epitope is resistant to phosphatases.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0251-C.1	0.1 ml
RA0251-C.5	0.5 ml

**Nucleoli Marker; Clone NM95 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of myeloid leukemia biopsy cells  
 Clone: NM95  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil  
 Specificity: Clone NM95 recognizes an antigen associated with the nucleoli in human cells. It can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0404-C.1	0.1 ml
RA0404-C.5	0.5 ml

**Nucleolin (Marker of Nucleoli); Clone NCL/902 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human nucleolin protein  
 Clone: NCL/902  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse, Rat and Cow. Others not known.  
 Positive Control: HeLa cells, breast cancer.  
 Specificity: Recognizes a protein of ~76kDa, which is identified as Nucleolin (NCL). This antibody can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions. It produces a speckled pattern in the nuclei of normal and malignant cells and may be used to stain the nucleoli of cells in fixed or frozen tissue sections. It can be used with paraformaldehyde-fixed frozen tissue or cell preparations and formalin-fixed, paraffin-embedded tissue sections.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0242-C.1	0.1 ml
RA0242-C.5	0.5 ml

**Ornithine Decarboxylase-1 (ODC-1); Clone ODC1/485 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human ODC-1 protein  
 Clone: ODC1/485  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Epithelial cells in normal placenta or prostate carcinoma.  
 Specificity: Recognizes a 53kDa protein, identified as Ornithine Decarboxylase (ODC-1).  
 Status: RUO

Catalog Number	Volume
RA0252-C.1	0.1 ml
RA0252-C.5	0.5 ml

**p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 (Concentrate)**

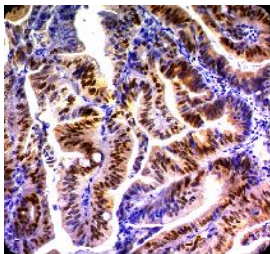
Species: Mouse  
 Immunogen: Human recombinant CDKN1A protein  
 Clone: CIP1/823  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.  
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.  
 Status: RUO

Catalog Number	Volume
RA0076-C.1	0.1 ml
RA0076-C.5	0.5 ml

**p21WAF1 (Tumor Suppressor Protein); Clone DCS-60.2 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant p21 protein  
 Clone: DCS-60.2  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.  
 Specificity: This monoclonal antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This antibody is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.  
 Status: RUO

Catalog Number	Volume
RA0075-C.1	0.1 ml
RA0075-C.5	0.5 ml



p21WAF1 (Tumor Suppressor Protein); Clone DCS-60.2 (Concentrate)

**p21WAF1 (Tumor Suppressor Protein); Clone WA-1 (HJ21) (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant p21 protein  
 Clone: WA-1 (HJ21)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.  
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.  
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.  
 Status: RUO

Catalog Number	Volume
RA0074-C.1	0.1 ml
RA0074-C.5	0.5 ml

**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 (Concentrate)**

Species: Mouse  
 Immunogen: Mouse recombinant p27 protein  
 Clone: DCS-72.F6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Carcinoma.  
 Specificity: Recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. Its epitope spans between amino acids 83-204 of p27. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.  
 Status: RUO

Catalog Number	Volume
RA0079-C.1	0.1 ml
RA0079-C.5	0.5 ml

**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone KIP1/769 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CDKN1B protein  
 Clone: KIP1/769  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.  
 Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.

Catalog Number	Volume
RA0078-C.1	0.1 ml
RA0078-C.5	0.5 ml



**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SX53G8 (Concentrate)**

Species: Mouse  
 Immunogen: Purified GST-p27 fusion protein of human origin  
 Clone: SX53G8  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.  
 Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0077-C.1	0.1 ml
RA0077-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone BP53-12 & DO-7 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human wild-type p53 protein (BP53-12); Recombinant human wild type p53 protein expressed in E. coli (DO-7).  
 Clone: BP53-12 & DO-7  
 Isotype: IgG2a (BP53-12); IgG2b, kappa (DO-7)  
 Species Reactivity: Human, Monkey, and Cow. Others not known.  
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.  
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0321-C.1	0.1 ml
RA0321-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone BP53-12 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human wild type p53 protein  
 Clone: BP53-12  
 Isotype: IgG2a  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.  
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0318-C.1	0.1 ml
RA0318-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone DO-7 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human wild type p53 protein expressed in E. coli.  
 Clone: DO-7  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Monkey, and Cow. Others not known.  
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.  
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0319-C.1	0.1 ml
RA0319-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone TRP/816 (Concentrate)**

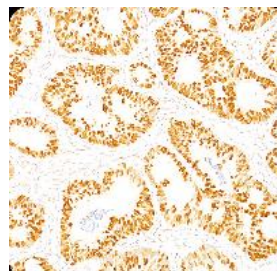
Species: Mouse  
 Immunogen: Recombinant human TP53 protein  
 Clone: TRP/816  
 Isotype: IgG2a  
 Species Reactivity: Human. Others not known.  
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.  
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0322-C.1	0.1 ml
RA0322-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone TRP/817 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TP53 protein  
 Clone: TRP/817  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.  
 Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0323-C.1	0.1 ml
RA0323-C.5	0.5 ml



p53 Tumor Suppressor Protein; Clone DO-7 (Concentrate)

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KIP2/880 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: KIP2/880  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

Catalog Number	Volume
RA0081-C.1	0.1 ml
RA0081-C.5	0.5 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein); Clone KP10 (Concentrate)**

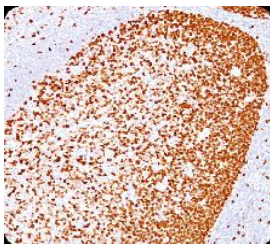
Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: KP10  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

Catalog Number	Volume
RA0080-C.1	0.1 ml
RA0080-C.5	0.5 ml

**Parathyroid Hormone (PTH); Clone 3H9 (Concentrate)**

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to amino acids 1 to 34 of mature PTH conjugated to a carrier  
 Clone: 3H9  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Predicted to react with Mouse, Rat, Rabbit, Cow, Dog, Pig, Deer, and Orangutan.  
 Positive Control: Human parathyroid gland carcinoma.  
 Specificity: The epitope of this antibody maps in between amino acids 1-34.  
 Status: RUO

Catalog Number	Volume
RA0272-C.1	0.1 ml
RA0272-C.5	0.5 ml



PCNA (Proliferating Cell Nuclear Antigen)  
 (G1- & S-phase Marker); Clone PC10 (Concentrate)

**Parathyroid Hormone (PTH); Clone PTH1/911 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PTH polypeptide  
 Clone: PTH1/911  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human parathyroid gland carcinoma.  
 Specificity: The epitope of this antibody maps in between amino acids 1-34.  
 Status: RUO

Catalog Number	Volume
RA0273-C.1	0.1 ml
RA0273-C.5	0.5 ml

**PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker); Clone PC10 (Concentrate)**

Species: Mouse  
 Immunogen: Rat PCNA/Protein A fusion protein  
 Clone: PC10  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Monkey, Pig, Mouse, Rat, Chicken, Zebrafish, Drosophila melanogaster and Yeast (*S. pombe* & *S. cerevisiae*). Others not known.  
 Positive Control: Tonsil or reactive lymph node.  
 Specificity: Recognizes a non-histone protein of 36kDa, which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein.  
 Status: RUO

Catalog Number	Volume
RA0253-C.1	0.1 ml
RA0253-C.5	0.5 ml

**PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone NAT105 (Concentrate)**

Species: Mouse  
 Immunogen: TY cells (human T/NK cell Leukemia)  
 Clone: NAT105  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: TY cells or Tonsil.  
 Specificity: Anti-PDCD1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.  
 Status: RUO

Catalog Number	Volume
RA0254-C.1	0.1 ml
RA0254-C.5	0.5 ml

**PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone PDCD1/922 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PDCD1 protein  
 Clone: PDCD1/922  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: TY cells or Tonsil.  
 Specificity: Anti-PDCD-1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.  
 Status: RUO

Catalog Number	Volume
RA0255-C.1	0.1 ml
RA0255-C.5	0.5 ml

**PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone 31A3 (Concentrate)**

Species: Mouse  
 Immunogen: Native Uchl1 (PGP9.5) protein from brain  
 Clone: 31A3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Cow, and Pig. Others not known.  
 Positive Control: Cerebellum  
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0333-C.1	0.1 ml
RA0333-C.5	0.5 ml

**PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone PARK5/775 (Concentrate)**

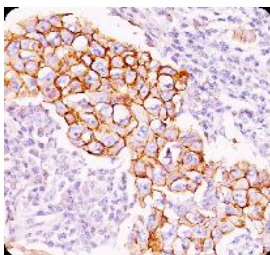
Species: Mouse  
 Immunogen: Recombinant human UCHL1 protein  
 Clone: PARK5/775  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows a broad species reactivity.  
 Positive Control: Cerebellum  
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0334-C.1	0.1 ml
RA0334-C.5	0.5 ml

**Phosphotyrosine (P-Tyr); Clone PTR/793 (Concentrate)**

Species: Mouse  
 Immunogen: Phosphotyrosine conjugated to BSA  
 Clone: PTR/793  
 Isotype: IgG2b  
 Species Reactivity: All species.  
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.  
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications including staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0420-C.1	0.1 ml
RA0420-C.5	0.5 ml



Phosphotyrosine (P-Tyr); Clone PY20 (Concentrate)

**Phosphotyrosine (P-Tyr); Clone PY20 (Concentrate)**

Species: Mouse  
 Immunogen: Phosphotyrosine conjugated to KLH  
 Clone: PY20  
 Isotype: IgG2b  
 Species Reactivity: All species  
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.  
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications, including staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0419-C.1	0.1 ml
RA0419-C.5	0.5 ml

**Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone ALP/870 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PLAP protein  
 Clone: ALP/870  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0005-C.1	0.1 ml
RA0005-C.5	0.5 ml

**Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone GM022 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PLAP protein  
 Clone: GM022  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0006-C.1	0.1 ml
RA0006-C.5	0.5 ml

**Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone PL8-F6 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human PLAP protein  
 Clone: PL8-F6  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0007-C.1	0.1 ml
RA0007-C.5	0.5 ml

**Plasma Cell Marker; Clone LIV3G11 (7B18) (Concentrate)**

Species: Mouse  
 Immunogen: Pancreatic cancer-related mucin  
 Clone: LIV3G11; same as 7B18  
 Isotype: IgG2a  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Tonsil or lymph node.  
 Specificity: This antibody recognizes an intra-cytoplasmic antigen, which shows a very high degree of specificity for plasma cells. This antigen is present in normal as well as neoplastic plasma cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0398-C.1	0.1 ml
RA0398-C.5	0.5 ml

**PNL2 (Melanoma Associated Antigen); Clone PNL2 (Concentrate)**

Species: Mouse  
 Immunogen: Melanocyte antigen  
 Clone: PNL2  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse and Dog. Others not known.  
 Positive Control: Melanoma  
 Specificity: Anti-PNL2 is a novel monoclonal antibody which has recently been introduced as an immunohistochemical reagent to stain melanocytes and tumors derived therefrom. The antigen recognized by PNL2 is different from Melan A and gp100. Its epitope is not destroyed by digestion with neuraminidase, i.e., its epitope is not glycosylated.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0415-C.1	0.1 ml
RA0415-C.5	0.5 ml

**Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker); Clone 3D3 (Concentrate)**

Species: Mouse  
 Immunogen: A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human podocalyxin  
 Clone: 3D3  
 Isotype: IgG1  
 Species Reactivity: Human, Rabbit, and Rat. Others not known.  
 Positive Control: HeLa, Raji, Jurkat cells, and angiosarcoma.  
 Specificity: The podocalyxin antibody can identify podocytes in the urine (podocyturia) that may indicate glomerular disease, pre-eclampsia, and other kidney pathology.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0264-C.1	0.1 ml
RA0264-C.5	0.5 ml

**Podoplanin (Lymphatic Endothelium & Alveolar Epithelial Marker); Clone PDPN/601 (Concentrate)**

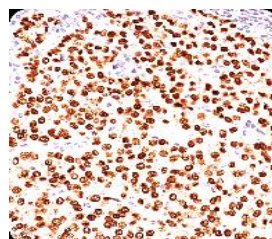
Species: Rat  
 Immunogen: Recombinant fragment containing platelet-aggregation-stimulating (PLAG) domain of HUMAN podoplanin  
 Clone: PDPN/601  
 Isotype: IgG2a  
 Species Reactivity: Human, Monkey and Gorilla. Does not react with Mouse, Rat, and Hamster. Others not known.  
 Positive Control: NCCIT cells. Kidney, placenta, lung, skeletal muscle and brain.  
 Specificity: This antibody recognizes the platelet aggregation-stimulating (PLAG) domain of podoplanin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0351-C.1	0.1 ml
RA0351-C.5	0.5 ml

**Progesterone Receptor (Marker of Progestin Dependence); Clone PR484 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Progesterone Receptor protein  
 Clone: PR484  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: T47-D cells or breast cancers.  
 Specificity: This antibody is specific to the progesterone receptor and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0263-C.1	0.1 ml
RA0263-C.5	0.5 ml



Progesterone Receptor  
 (Marker of Progestin Dependence);  
 Clone PR484 (Concentrate)

**Prolactin Receptor (PRL-R); Clone B6.2 & PRLR742 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified human prolactin receptor (B6.2); Recombinant human prolactin receptor (PRLR742)  
 Clone: B6.2 & PRLR742  
 Isotype: IgG1, kappa (B6.2); IgG1, kappa (PRLR742)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Breast, placenta, liver or pancreas.  
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0271-C.1	0.1 ml
RA0271-C.5	0.5 ml

**Prolactin Receptor (PRL-R); Clone B6.2 (Concentrate)**

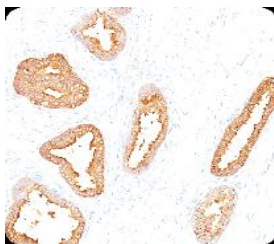
Species: Mouse  
 Immunogen: Semi-purified human prolactin receptor  
 Clone: B6.2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Breast, placenta, liver or pancreas.  
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0269-C.1	0.1 ml
RA0269-C.5	0.5 ml

**Prolactin Receptor (PRL-R); Clone PRLR742 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human prolactin receptor  
 Clone: PRLR742  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Breast, placenta, liver or pancreas.  
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0270-C.1	0.1 ml
RA0270-C.5	0.5 ml



Prostate Specific Antigen (PSA); Clone A67-B/E3 (Concentrate)

**Prostate Specific Antigen (PSA); Clone A67-B/E3 (Concentrate)**

Species: Mouse  
 Immunogen: PSA from human sperm plasma  
 Clone: A67-B/E3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.  
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAB is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0008-C.1	0.1 ml
RA0008-C.5	0.5 ml

**Prostate Specific Antigen (PSA); Clone KLK3/801 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KLK3 protein  
 Clone: KLK3/801  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.  
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAB is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0009-C.1	0.1 ml
RA0009-C.5	0.5 ml

**pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone GE2 (R47/94) (Concentrate)**

Species: Mouse  
 Immunogen: Synthetic peptide of 28 amino acid residues corresponding to CFDDTVRGVPWCFYPNTIDVPPPEEECEF (aa 57-84) from the C-terminus of human pS2.  
 Clone: GE2; same as R47/94  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Cynomolgus Monkey. Others not known.  
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is localized between aa 57-84 of human pS2 protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0300-C.1	0.1 ml
RA0300-C.5	0.5 ml



**Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone 66.4.C2 (PN-15) (Concentrate)**

Species: Mouse  
 Immunogen: Microsomal fraction of human renal cortical tissue homogenate  
 Clone: 66.4.C2 (PN-15)  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Horse. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma.  
 Specificity: Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Its epitope resides in the carbohydrate domain of gp200. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0026-C.1	0.1 ml
RA0026-C.5	0.5 ml

**Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone CA9/781 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CA9 protein  
 Clone: CA9/781  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Horse. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma  
 Specificity: Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0027-C.1	0.1 ml
RA0027-C.5	0.5 ml

**S100 (Astrocyte Marker); Clone 4C4.9 (Concentrate)**

Species: Mouse  
 Immunogen: Purified bovine brain S100 protein  
 Clone: 4C4.9  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Mouse, Rat, Cow. Others not known.  
 Positive Control: Brain and Melanoma.  
 Specificity: S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0285-C.1	0.1 ml
RA0285-C.5	0.5 ml

**S100A7 / HID5 / Psoriasis (Proliferative Epithelial Cell Marker); Clone S100A7/542 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human S100A7 protein  
 Clone: S100A7/542  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 cells. Breast carcinoma.  
 Specificity: This antibody recognizes a protein of 11kDa, identified as S100A7. This protein is markedly over-expressed in the skin lesions of psoriatic patients. This protein is found to have elevated expression in abnormally differentiating primary keratinocytes and in various carcinomas, including ductal carcinoma in situ. It may serve as a marker of abnormally proliferative epithelia.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0286-C.1	0.1 ml
RA0286-C.5	0.5 ml

**Secretory Component / ECM1; Clone ECM1/792 (Concentrate)**

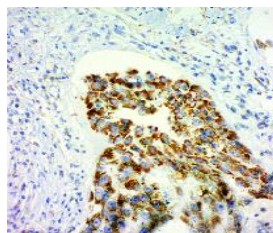
Species: Mouse  
 Immunogen: Recombinant human ECM1 protein  
 Clone: ECM1/792  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Others not known.  
 Positive Control: Stomach, lung, or breast tumor.  
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SigA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0106-C.1	0.1 ml
RA0106-C.5	0.5 ml

**Secretory Component / ECM1; Clone SC05 (Concentrate)**

Species: Mouse  
 Immunogen: Secretory Component protein isolated from human colostrum  
 Clone: SC05  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Others not known.  
 Positive Control: Stomach, lung, or breast tumor.  
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SigA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0105-C.1	0.1 ml
RA0105-C.5	0.5 ml



Secretory Component / ECM1;  
 Clone SC05 (Concentrate)



### Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone ID8 (Concentrate)

Species: Mouse  
 Immunogen: Human uterus extract  
 Clone: ID8  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.  
 Positive Control: Uterus or normal breast.  
 Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.  
 Status: RUO

Catalog Number	Volume
RA0229-C.1	0.1 ml
RA0229-C.5	0.5 ml

### Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone MYH11/923 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human MYH11 protein  
 Clone: MYH11/923  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Predicted to have broad species reactivity.  
 Positive Control: Uterus or normal breast.  
 Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.  
 Status: RUO

Catalog Number	Volume
RA0230-C.1	0.1 ml
RA0230-C.5	0.5 ml

### Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker); Clone SMMS-1 (Concentrate)

Species: Mouse  
 Immunogen: Human uterus extract  
 Clone: SMMS-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.  
 Positive Control: Uterus or normal breast.  
 Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.  
 Status: RUO

Catalog Number	Volume
RA0228-C.1	0.1 ml
RA0228-C.5	0.5 ml

### SUMO-1; Clone SM1/495 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human SUMO1 protein  
 Clone: SM1/495  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Breast carcinoma.  
 Specificity: This antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3.  
 Status: RUO

Catalog Number	Volume
RA0332-C.1	0.1 ml
RA0332-C.5	0.5 ml

### SUMO-2/3; Clone SM23/496 (Concentrate)

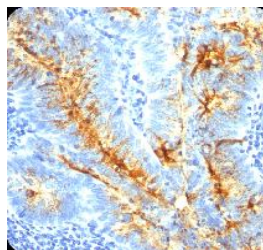
Species: Mouse  
 Immunogen: Recombinant human SUMO2 protein  
 Clone: SM23/496  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: HeLa cells or breast carcinoma.  
 Specificity: This antibody reacts with both SUMO-2 and SUMO-3.  
 Status: RUO

Catalog Number	Volume
RA0295-C.1	0.1 ml
RA0295-C.5	0.5 ml

### TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CA72/733 (Concentrate)

Species: Mouse  
 Immunogen: TAG-72 protein (B72.3 & CA72/733)  
 Clone: B72.3 & CA72/733  
 Isotype: IgG1, kappa (B72.3 & CA72/733)  
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.  
 Positive Control: Jurkat cells, breast or lung carcinoma.  
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.  
 Status: RUO

Catalog Number	Volume
RA0370-C.1	0.1 ml
RA0370-C.5	0.5 ml



TAG-72 (Tumor-Associated Glycoprotein);  
Clone B72.3 & CA72/733  
(Concentrate)

**TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CC49 (Concentrate)**

Species: Mouse

Immunogen: TAG-72 protein (B72.3 &amp; CC49)

Clone: B72.3 &amp; CC49

Isotype: IgG1, kappa (B72.3 &amp; CC49)

Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

Catalog Number	Volume
RA0371-C.1	0.1 ml
RA0371-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 (Concentrate)**

Species: Mouse

Immunogen: Membrane-enriched fraction of a human breast carcinoma liver metastasis

Clone: B72.3

Isotype: IgG1, kappa

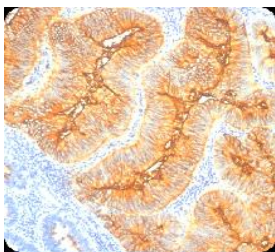
Species Reactivity: Human, Cow, Dog, Hamster, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

Catalog Number	Volume
RA0367-C.1	0.1 ml
RA0367-C.5	0.5 ml



TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 (Concentrate)

**TAG-72 (Tumor-Associated Glycoprotein); Clone CA72/733 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human TAG-72 protein

Clone: CA72/733

Isotype: IgG1, kappa

Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

Catalog Number	Volume
RA0369-C.1	0.1 ml
RA0369-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone CC49 (Concentrate)**

Species: Mouse

Immunogen: Purified TAG-72 protein

Clone: CC49

Isotype: IgG1, kappa

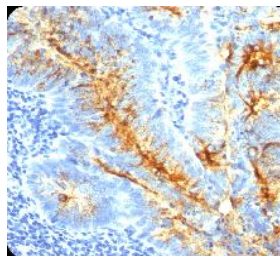
Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

Catalog Number	Volume
RA0368-C.1	0.1 ml
RA0368-C.5	0.5 ml



TAG-72 (Tumor-Associated Glycoprotein); Clone CC49 (Concentrate)

**Tenascin C (Stromal Marker For Epithelial Malignancy); Clone T2H5 (Concentrate)**

Species: Mouse  
 Immunogen: Human breast carcinoma  
 Clone: T2H5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Extracellular matrix in tonsil and blood vessels. Stroma of many tumors such as breast, squamous cell, and lung carcinomas. Staining of normal fibroblasts serves as internal positive control.  
 Specificity: In Western blotting, it reacts with two bands at ~MW of 210kDa and 300kDa, identified as two isoforms of Tenascin C. Specificity of this monoclonal antibody is validated by sequential immunoprecipitation with a polyclonal antibody against Tenascin C.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0135-C.1	0.1 ml
RA0135-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone 1E8-G6 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$ .  
 Clone: 1E8-G6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0305-C.1	0.1 ml
RA0305-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone P/T1 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$ .  
 Clone: P/T1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0307-C.1	0.1 ml
RA0307-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone TG86 & P/T1 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$  (TG86 & P/T1).  
 Clone: TG86 & P/T1  
 Isotype: IgG1, kappa (TG86 & P/T1)  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0308-C.1	0.1 ml
RA0308-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone TG86 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$ .  
 Clone: TG86  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0306-C.1	0.1 ml
RA0306-C.5	0.5 ml

**Thymidylate Synthase (5-FU Resistance Marker); Clone TMS715 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human thymidylate synthase  
 Clone: TMS715  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.  
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0327-C.1	0.1 ml
RA0327-C.5	0.5 ml

**Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 & TMS715 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human thymidylate synthase (TS106 & TMS715)  
 Clone: TS106 & TMS715  
 Isotype: IgG1, kappa (TS106 & TMS715)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.  
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).  
 Status: RUO

Catalog Number	Volume
RA0328-C.1	0.1 ml
RA0328-C.5	0.5 ml

**Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 (Concentrate)**

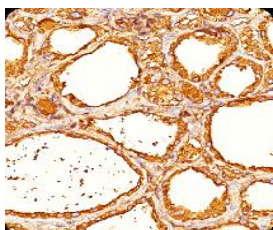
Species: Mouse  
 Immunogen: Recombinant human thymidylate synthase  
 Clone: TS106  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.  
 Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).  
 Status: RUO

Catalog Number	Volume
RA0326-C.1	0.1 ml
RA0326-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 & 6E1 (Concentrate)**

Species: Mouse  
 Immunogen: Human thyroid follicular cells (2H11 & 6E1)  
 Clone: 2H11 & 6E1  
 Isotype: IgG1, kappa (2H11 & 6E1)  
 Species Reactivity: Human, Mouse, Rat. Others not known.  
 Positive Control: Thyroid  
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.  
 Status: RUO

Catalog Number	Volume
RA0303-C.1	0.1 ml
RA0303-C.5	0.5 ml



Thyroglobulin  
 (Thyroidal Cell Marker);  
 Clone 2H11 & 6E1 (Concentrate)

**Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 (Concentrate)**

Species: Mouse  
 Immunogen: Human thyroid follicular cells  
 Clone: 2H11  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat. Others not known.  
 Positive Control: Thyroid  
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.  
 Status: RUO

Catalog Number	Volume
RA0301-C.1	0.1 ml
RA0301-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone 6E1 (Concentrate)**

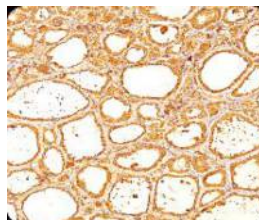
Species: Mouse  
 Immunogen: Human thyroid follicular cells  
 Clone: 6E1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat. Others not known.  
 Positive Control: Thyroid  
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.  
 Status: RUO

Catalog Number	Volume
RA0302-C.1	0.1 ml
RA0302-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone TGB04 & TGB05 (Concentrate)**

Species: Mouse  
 Immunogen: Human thyroid follicular cells (TGB04 & TGB05)  
 Clone: TGB04 & TGB05  
 Isotype: IgG1, kappa (TGB04 & TGB05)  
 Species Reactivity: Human, Mouse, Rat. Others not known.  
 Positive Control: Thyroid  
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.  
 Status: RUO

Catalog Number	Volume
RA0304-C.1	0.1 ml
RA0304-C.5	0.5 ml



Thyroglobulin (Thyroidal Cell Marker);  
 Clone TGB04 & TGB05 (Concentrate)

**TNF-alpha (Tumor Necrosis Factor alpha); Clone 4C6-H8 (Concentrate)**

Species: Mouse  
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.  
 Clone: 4C6-H8  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0314-C.1	0.1 ml
RA0314-C.5	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone P/T2 (Concentrate)**

Species: Mouse  
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.  
 Clone: P/T2  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0315-C.1	0.1 ml
RA0315-C.5	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 & P/T2 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TNF-alpha  
 Clone: TNF706 & P/T2  
 Isotype: IgM, kappa (TNF706 & P/T2)  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0317-C.1	0.1 ml
RA0317-C.5	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TNF-alpha  
 Clone: TNF706  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0316-C.1	0.1 ml
RA0316-C.5	0.5 ml

**TRAcP (Tartrate-Resistant Acid Phosphatase); Clone ACP5/1070 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human ACP5 protein  
 Clone: ACP5/1070  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: HepG2, 293T, K562 or RPMI-8226 Cells. Spleen from Hairy Cell Leukemia (HCL) patient.  
 Specificity: This antibody recognizes a protein of 35kDa, which is identified as tartrate-resistant acid phosphatase (TRAcP). It exists as two isoforms (5a and 5b). This antibody reacts with both the isoforms. The anti-TRAcP antibody labels the cells of Hairy Cell Leukemia (HCL) with a high degree of sensitivity and specificity. Other cells stained with this antibody are tissue macrophages and osteoclasts.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0422-C.5	0.5 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 & NX2.1/690 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full length Rat TTF-1 protein (8G7G3/1); Recombinant TTF-1 protein (NX2.1/690)  
 Clone: 8G7G3/1 & NX2.1/690  
 Isotype: IgG1, kappa (8G7G3/1 & NX2.1/690)  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells. Normal thyroid or lung.  
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0313-C.1	0.1 ml
RA0313-C.5	0.5 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full length Rat TTF-1 protein  
 Clone: 8G7G3/1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Shows a broad species reactivity.  
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.  
 Normal thyroid or lung.  
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0310-C.1	0.1 ml
RA0310-C.5	0.5 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone NX2.1/690 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant TTF-1 protein  
 Clone: NX2.1/690  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.  
 Normal thyroid or lung.  
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0312-C.1	0.1 ml
RA0312-C.5	0.5 ml

**Tubulin-alpha (Microtubule Marker); Clone TU-02 (Concentrate)**

Species: Mouse  
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin  
 Clone: TU-02  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Pig, Mouse, and Rat. Others not known.  
 Positive Control: A431, HeLa or NIH/3T3 cells. Colon tissue.  
 Specificity: This antibody recognizes an epitope on the N-terminal structural domain of alpha-tubulin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0324-C.1	0.1 ml
RA0324-C.5	0.5 ml

**Tubulin-alpha (Microtubule Marker); Clone TU-16 (Concentrate)**

Species: Mouse  
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin.  
 Clone: TU-16  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Pig, Cow, Mouse, Rat, Hamster, Chicken, and many others.  
 Positive Control: A431, HeLa, Raji, or NIH/3T3 cells. Colon tissue.  
 Specificity: This antibody recognizes an epitope of alpha-tubulin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0325-C.1	0.1 ml
RA0325-C.5	0.5 ml

**Tumor Endothelial Marker 8 (TEM8) / Anthrax Toxin Receptor 1; Clone TEM8/589 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TEM8 protein  
 Clone: TEM8/589  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Non-human Primates, Dog, and Rabbit. Others not known.  
 Positive Control: P23 cells. Colon or breast carcinoma.  
 Specificity: This antibody recognizes a protein of ~63kDa, identified as Tumor Endothelial Marker 8 (TEM8).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0365-C.1	0.1 ml
RA0365-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone OCA1/812 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human tyrosinase protein  
 Clone: OCA1/812  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.  
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0330-C.1	0.1 ml
RA0330-C.5	0.5 ml



**Tyrosinase (Melanoma Marker); Clone T311 & OCA1/812 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human tyrosinase protein (T311 & OCA1/812)  
 Clone: T311 & OCA1/812  
 Isotype: IgG2a, kappa (T311 & OCA1/812)  
 Species Reactivity: Human. Others not known.  
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.  
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0331-C.1	0.1 ml
RA0331-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone T311 (Concentrate)**

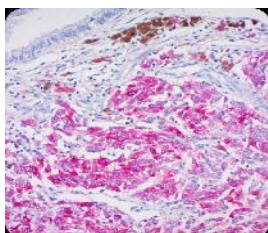
Species: Mouse  
 Immunogen: Recombinant tyrosinase protein  
 Clone: T311  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.  
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0329-C.1	0.1 ml
RA0329-C.5	0.5 ml

**Vimentin (Mesenchymal Cell Marker); Clone LN6 (Concentrate)**

Species: Mouse  
 Immunogen: Human thymic nuclear extract  
 Clone: LN6  
 Isotype: IgM  
 Species Reactivity: Human, Cat, Cow, Pig, Rat, Rabbit, Mouse, and Sheep. Others not known.  
 Positive Control: Jurkat cells, Sarcomas, Melanomas.  
 Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It reacts with a non-hematopoietic epitope of vimentin and shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0338-C.1	0.1 ml
RA0338-C.5	0.5 ml



Tyrosinase;  
 Clone T311 (Concentrate)

**Vimentin (Mesenchymal Cell Marker); Clone VM452 (Concentrate)**

Species: Mouse  
 Immunogen: Human vimentin recombinant protein  
 Clone: VM452  
 Isotype: IgG1  
 Species Reactivity: Human, Cow, Dog, Cat, Pig, Goat and Chicken. Does not react with Mouse and Rat. Others not known.  
 Positive Control: Jurkat cells, Sarcomas, Melanomas.  
 Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0337-C.1	0.1 ml
RA0337-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 & VWF635 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human vWF fragment (3E2D10 & VWF635).  
 Clone: 3E2D10 & VWF635  
 Isotype: IgG1, kappa (3E2D10 & VWF635)  
 Species Reactivity: Human. Others not known.  
 Positive Control: HUVEC or Tonsil.  
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0341-C.1	0.1 ml
RA0341-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human vWF fragment spanning aa 845-949.  
 Clone: 3E2D10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HUVEC or Tonsil.  
 Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0339-C.1	0.1 ml
RA0339-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone IIIE2.34 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment spanning aa 845-949

Clone: IIIE2.34

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0342-C.1	0.1 ml
RA0342-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone VWF635 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment.

Clone: VWF635

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0340-C.1	0.1 ml
RA0340-C.5	0.5 ml

**Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone 6F-H2 (Concentrate)**

Species: Mouse

Immunogen: Recombinant protein corresponding to residues 1-181 of human WT1.

Clone: 6F-H2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.

Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0343-C.1	0.1 ml
RA0343-C.5	0.5 ml

**Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone WMT/857 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human WT1 protein

Clone: WMT/857

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.

Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0344-C.1	0.1 ml
RA0344-C.5	0.5 ml

**ZAP-70 [Zeta-chain (TCR) Associated Protein Kinase 70kDa]; Clone 2F3.2 (Concentrate)**

Species: Mouse

Immunogen: Recombinant ZAP-70 protein including residues 1-254 and encompassing the SH2 domains of human ZAP-70.

Clone: 2F3.2

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: Jurkat cells. Tonsil or lymph node.

Specificity: Recognizes human ZAP-70; does not recognize murine ZAP-70.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0345-C.1	0.1 ml
RA0345-C.5	0.5 ml

**Polyclonal Concentrate****AMACR / p504S (Prostate Cancer Marker); Rabbit Polyclonal (Concentrate)**

Species: Rabbit

Immunogen: A synthetic peptide from human AMACR protein

Clone: Rabbit Polyclonal

Isotype: IgG

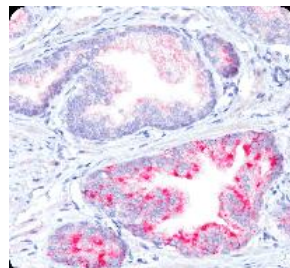
Species Reactivity: Human. Others not known.

Positive Control: HEK cells or Prostate Adenocarcinoma.

Specificity: This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0354-C.1	0.1 ml
RA0354-C.5	0.5 ml



AMACR / p504S  
(Prostate Cancer Marker);  
Rabbit Polyclonal (Concentrate)

**beta-Catenin (p120); Rabbit Polyclonal (Concentrate)**

Species: Rabbit  
 Immunogen: A synthetic peptide from the middle of beta-Catenin (p120) protein  
 Clone: Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Immuno-staining of beta-catenin and E-cadherin is helpful in the accurate identification of ductal and lobular neoplasms, including a distinction between low-grade ductal carcinoma in situ (DCIS) and lobular carcinoma. Additionally, some rectal and gastric adenocarcinomas demonstrate diffuse cytoplasmic beta-catenin staining and a lack of membranous staining, mimicking the staining pattern observed with lobular breast carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0104-C.1	0.1 ml
RA0104-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Rabbit Polyclonal (Concentrate)**

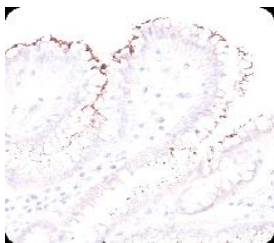
Species: Rabbit  
 Immunogen: Human CD8 recombinant fragment corresponding to aa 200-250  
 Clone: Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0044-C.1	0.1 ml
RA0044-C.5	0.5 ml

**Helicobacter Pylori; Rabbit Polyclonal (Concentrate)**

Species: Rabbit  
 Immunogen: Total sonicate of Helicobacter pylori  
 Clone: Rabbit Polyclonal  
 Isotype: IgG  
 Species Reactivity: Helicobacter pylori  
 Positive Control: Helicobacter pylori infected stomach biopsy.  
 Specificity: This antibody stains the individual H. pylori bacterium when it presents on the surface of the epithelium or in the cytoplasm of the epithelial cells in biopsy tissue sections from the antrum and body of the stomach.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0379-C.1	0.1 ml
RA0379-C.5	0.5 ml



Helicobacter Pylori;  
Rabbit Polyclonal (Concentrate)

**Napsin A (Lung Adenocarcinoma Marker); Rabbit Polyclonal (Concentrate)**

Species: Rabbit  
 Immunogen: A synthetic peptide (RFDPKASSSFQANGTKFAIQYGT) of human Napsin-A.  
 Clone: Rabbit Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: Lung adenocarcinoma.  
 Specificity: Immunohistochemical studies revealed high expression levels of napsin A in human lung and kidney, but low expression in spleen. Napsin A is expressed in type II pneumocytes and in adenocarcinomas of lung.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0348-C.1	0.1 ml
RA0348-C.5	0.5 ml

**p40 (deltaNp63) (Squamous, Basal, or Myoepithelial Cell Marker); Rabbit Polyclonal (Concentrate)**

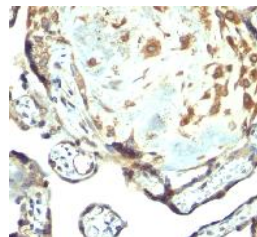
Species: Rabbit  
 Immunogen: A synthetic peptide (ENNAQTQFSEPY) corresponding to aa 5-17 of human p40  
 Clone: Rabbit Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human, Mouse, Rat, and Cow. Others not known.  
 Positive Control: HEK293 cells, Prostate Carcinoma, or Lung Squamous Cell Carcinoma.  
 Specificity: p40 (p63 delta) is a marker recently determined to be highly specific for squamous basal cells in the immunohistochemistry (IHC) application.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0346-C.1	0.1 ml
RA0346-C.5	0.5 ml

**TIMP-3 (Tissue Inhibitor of Metalloproteinase-3); Rabbit Polyclonal (Concentrate)**

Species: Rabbit  
 Immunogen: Recombinant fragment corresponding to Human TIMP3 aa 175-211  
 Clone: Rabbit polyclonal  
 Isotype: IgG  
 Species Reactivity: Human, Mouse, Rat, Horse, Cow, and Dog. Others not known.  
 Positive Control: Placenta or breast carcinoma.  
 Specificity: The amino acid sequence (aa 175-211) used as the immunogen for anti-TIMP3 is 100% homologous in human, cow, dog and horse, and 94% homologous in mouse and rat.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0309-C.1	0.1 ml
RA0309-C.5	0.5 ml



TIMP-3  
(Tissue Inhibitor of Metalloproteinase-3);  
Rabbit Polyclonal (Concentrate)

## Monoclonal Ready-to-Use

### Actin, Alpha-Smooth Muscle; Clone 1A4 (Ready-To-Use)

Species: Mouse Monoclonal

Clone: 1A4

Isotype: IgG2a,k

Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.

Positive Control: Blood vessels

Specificity: This antibody recognizes the  $\alpha$ -smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle ( $\alpha$ -sarcomeric), and myocardium ( $\alpha$ -myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of  $\alpha$ -smooth actin. ScyTek's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

Catalog Number	Volume
A00002-0002	2 ml
A00002-0007	7 ml
A00002-0025	25 ml

### Actin, Muscle Specific; Clone HHF35

Species: Mouse Monoclonal

Clone: HHF35

Isotype: IgG1, kappa

MW: 42kD

Species Reactivity: Human

Positive Control: Skeletal or cardiac muscle.

Specificity: This antibody is specific to alpha and gamma specific actin isomers from skeletal, cardiac and smooth muscle but does not recognize beta and non-smooth muscle gamma actin isomers. In western blot, HHF35 detects a 42kD protein extract from skeletal muscle but not from epithelial cell lines.

Catalog Number	Volume
A20001	2 ml Ready-to-use
A00001	6 ml Ready-to-use
A00001.0025	25 ml Ready-to-use

### Actin, Pan; Clones 1A4 plus 5C5.F8.C7

Species: Mouse Monoclonal

Clone: 1A4+5C5.F8.C7

Isotype: IgG2ak (1A4) IgMk (5C5.F8.C7)

Species Reactivity: Human

Positive Control: Muscle or sarcoma

Cellular Localization: Cytoplasmic

Specificity: Reacts with micro-smooth muscle as well as  $\alpha$ -skeletal and  $\alpha$ -cardiac (sarcomeric) isoform of actin.

Catalog Number	Volume
A20067	2 ml
A00067	6 ml
A00067.0025	25 ml

### Bcl-2 Oncoprotein; Clone 124

Species: Mouse Monoclonal

Clone: 124

Isotype: IgG1,kappa

MW: 25 kD

Species Reactivity: Human

Specificity: This antibody reacts with a 25 kD bcl protein, which lies within the cell rather than on the cell surface. It stains neoplastic cells of follicular lymphoma, hairy cell leukaemia, high grade B and T cell lymphomas, lymphoblastic lymphomas and anaplastic large cell lymphoma.

Catalog Number	Volume
A20004	2 ml Ready-to-use
A00004	6 ml Ready-to-use
A00004.0025	25 ml Ready-to-use

### Bcl-2; Clone 100/D5 (Ready-To-Use)

Species: Mouse

Clone: 100/D5

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human, Monkey. Others not tested.

Positive Control: Tonsil.

Cellular Localization: Cytoplasmic & Cell Membrane.

Specificity: Human Bcl-2 alpha is a 239 amino acid (aa) protein and human Bcl-2 beta is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

Catalog Number	Volume
A00119-0002	2 ml
A00119-0007	7 ml
A00119-0025	25 ml

### Bcl-6; Clone PG-B6p

Species: Mouse Monoclonal

Clone: PG-B6p

Isotype: IgG1, kappa

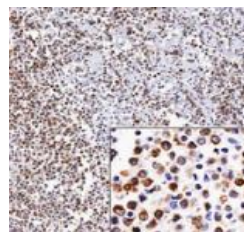
Species Reactivity: Human, rabbit, rat, swine, calf, and lamb.

Positive Control: Tonsil

Cellular Localization: Nuclear

Specificity: In normal tonsil the antibody reacts with the nuclei of centroblasts and centrocytes in germinal centers. No reactivity is observed with other germinal center cells, e.g. plasma cells, macrophages, or follicular dendritic cells. Approximately 10% of germinal center T cells are stained with the antibody. The staining pattern of normal spleen B and T cell compartments are similar to that of tonsil. A faint nuclear staining is observed in squamous epithelia in the tonsil, thymus, and skin. In tumor cells the antibody shows strong nuclear labelling of Bcl-6 protein in follicular lymphomas, diffuse large B cell lymphomas, Burkitt's lymphomas, and nodular, lymphocyte-predominant Hodgkin's disease.

Catalog Number	Volume
A20077	2 ml
A00077	6 ml
A00077.0025	25 ml



Bcl-2; Clone 100/D5 (Ready-To-Use)

**CA15-3 (Ready-To-Use)**

IVD

Species: Mouse Monoclonal  
 Isotype: IgG1  
 Species Reactivity: Human  
 Positive Control: Human Breast

Specificity: Human Breast Tumor Antigen (CA15-3). No cross-reactivity with Human AFP, CEA, PAP, PSA, CA19-9, or CA125.

Catalog Number	Volume
A00078-0002	2 ml
A00078-0007	7 ml
A00078-0025	25 ml

**CA19-9; Clone 121SLE (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 121SLE  
 Isotype: IgM, Kappa  
 Species Reactivity: Human

Cellular Localization: Luminal surface and cytoplasm.  
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewisia structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewisia and/or Lewisb blood group antigens. In normal tissues, sialyl Lewisia antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

Catalog Number	Volume
A00107-0002	2 ml
A00107-0007	7 ml
A00107-0025	25 ml

**Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Ready-To-Use)**

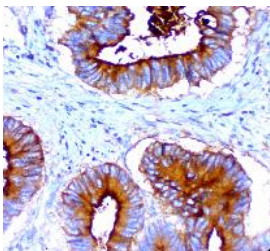
IVD

Species: Mouse  
 Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.  
 Clone: COL-1

Isotype: IgG1 Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Colon Adenocarcinoma.

Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

Catalog Number	Volume
A00135-0002	2 ml
A00135-0007	7 ml
A00135-0025	25 ml



Carcinoembryonic Antigen,  
 Pan (CEA);  
 Clone COL-1 (Ready-To-Use)

**Cathepsin D; Clone C5**

IVD

Species: Mouse Monoclonal  
 Clone: C5  
 Isotype: IgG2b  
 Species Reactivity: Human  
 Positive Control: Macrophages in breast carcinoma

Specificity: Cathepsin D is synthesized as a 54 kD precursor which is proteolytically processed to an intermediate 48 kD single chain which matures into more stable 34 kD and 14 kD two chain form.

Catalog Number	Volume
A20046	2 ml Ready-to-use
A00046	6 ml Ready-to-use
A00046.0025	25 ml Ready-to-use

**CD10, CALLA (Neutral Endopeptidase); Clone 56C6**

IVD

Species: Mouse Monoclonal  
 Clone: 56C6  
 Isotype: IgG1  
 MW: 100kD  
 Species Reactivity: Human, rat.

Positive Control: Small intestine or kidney.

Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphocytic Leukemia Antigen (CALLA). It is a cell surface enzyme with neutral metalloendopeptidase activity which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkitt's, and follicular germinal center lymphomas, and on cells from patients with chronic myelocytic leukemia (CML). It is also expressed on the surface of normal early lymphoid progenitor cells, immature B cells within adult bone marrow and germinal center B cells within lymphoid tissue. CD10 is also present on breast myoepithelial cells, bile canaliculari, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells.

Catalog Number	Volume
A20091	2 ml Ready-to-use
A00091	6 ml Ready-to-use
A00091.0025	25 ml Ready-to-use

**CD15; Clone Leu-M1 (Ready-To-Use)**

IVD

Species: Mouse  
 Immunogen: U937 histiocytic cell line  
 Clone: Leu-M1 (same as MMA)  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.

Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

Catalog Number	Volume
A00151-0002	2 ml
A00151-0007	7 ml
A00151-0025	25 ml



**CD20, B-Cell; Clone L26 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: L26  
 Isotype: IgG2a,k  
 MW: 33 kD and 30 kD  
 Species Reactivity: Human  
 Positive Control: Tonsil

Specificity: This antibody is specific to a 33 kD polypeptide present on the majority of B cells in peripheral blood and lymphoid tissue and also with a minor component of 30 kD. No reactivity with other haematopoietic cells has been observed.

Catalog Number	Volume
A00003-0002	2 ml Ready-to-use
A00003-0007	7 ml Ready-to-use
A00003-0025	25 ml Ready-to-use

**CD23, B-Cell; Clone MHM6**

Species: Mouse  
 Clone: MHM6  
 Isotype: IgG1, Kappa

Specificity: In lymphoid tissue, the antibody labels a variable proportion of mantle zone lymphocytes and a fraction of dendritic reticulum cells. In lymph nodes with progressive germinal centre transformation, the number and staining intensity of small follicular lymphocytes are increased. Essentially no staining is seen on splenic marginal zone lymphocytes.

The CD23 antigen is expressed on neoplastic cells from cases of B-Cell chronic lymphocytic leukemia and some cases of centroblastic/centrocytic lymphoma, but not in other types of lymphoid neoplasms.

Catalog Number	Volume
A20081	2 ml
A00081	6 ml
A00081.0025	25 ml

**CD30, Ki-1 Antigen; Clone Ber-H2 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: Ber-H2  
 Isotype: IgG1,k  
 MW: 105/120 kD  
 Species Reactivity: Human. Does not react with baboon and monkey  
 Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. CD30 is synthesized as a 90kDa precursor which is processed in the Golgi complex into a membrane-bound phosphorylated mature 105/120kDa glycoprotein. The CD30/Ki-1 antigen is expressed by mononuclear Hodgkin and multinucleated Reed-Sternberg cells in Hodgkin's disease, by the tumor cells of a majority of anaplastic large cell lymphomas, and by a varying proportion of activated T and B cells.

Catalog Number	Volume
A00016-0002	2 ml Ready-to-use
A00016-0007	7 ml Ready-to-use
A00016-0025	25 ml Ready-to-use

**CD31, Endothelial Cell; Clone JC/70A**

Species: Mouse Monoclonal  
 Clone: JC/70A  
 Isotype: IgG1,k  
 MW: 100 kD  
 Species Reactivity: Human. Does not react with pig.  
 Positive Control: Blood vessels in skin or intestine

Specificity: Recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This Mab reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In Cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils.

Catalog Number	Volume
A20009	2 ml Ready-to-use
A00009	6 ml Ready-to-use
A00009.0025	25 ml Ready-to-use

**CD31; Clone C31.3 (Ready-To-Use)**

Species: Mouse  
 Clone: C31.3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Liver, Kidney.

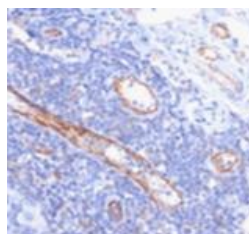
Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

Catalog Number	Volume
A00126-0002	2 ml
A00126-0007	7 ml
A00126-0025	25 ml

**CD31; Clone C31.7 (Ready-To-Use)**

Species: Mouse  
 Clone: C31.7  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human.  
 Cellular Localization: Primarily membrane.  
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

Catalog Number	Volume
A00110-0002	2 ml
A00110-0007	7 ml
A00110-0025	25 ml



CD31; Clone C31.7 (Ready-To-Use)



**CD34, Endothelial Cell; Clone QBEnd/10**

IVD

Species: Mouse Monoclonal  
 Clone: QBEND-10  
 Isotype: IgG1,k  
 MW: 110 kD  
 Species Reactivity: Human  
 Positive Control: Normal human skin.

Specificity: This antibody reacts with a 110 kD glycoprotein, present on the surface of hematopoietic cells, i.e. myeloid and lymphoid progenitors. The antibody stains vascular endothelial cells.

Catalog Number	Volume
A20070	2 ml Ready-to-use
A00070	6 ml Ready-to-use
A00070.0025	25 ml Ready-to-use

**CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 and 2B11**

IVD

Species: Mouse Monoclonal  
 Clone: PD7/26 and 2B11  
 Isotype: IgG1,k  
 MW: 180, 190,205 and 220 kD  
 Species Reactivity: Human  
 Positive Control: Tonsil

Specificity: The human leucocyte common antigen is a family of five or more high molecular weight glycoproteins of MW 180, 190, 205 and 220 kD, present on the surface of the majority of human leucocytes. This antibody labels lymphoid cells. The antibody labels neoplastic B and T cells in non-Hodgkin's lymphoma and in leukaemias of B and T cell types.

Catalog Number	Volume
A20017	2 ml Ready-to-use
A00017	6 ml Ready-to-use
A00017.0025	25 ml Ready-to-use

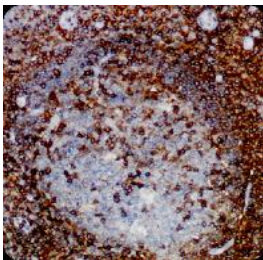
**CD45; Clone 2B11 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 2B11  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

Catalog Number	Volume
A00129-0002	2 ml
A00129-0007	7 ml
A00129-0025	25 ml



CD45; Clone 2B11 (Ready-To-Use)

**CD45RA (LCA); Clone 158-4D3 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 158-4D3  
 Isotype: Mouse IgG2a, Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Tonsil, Spleen.  
 Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

Catalog Number	Volume
A00123-0002	2 ml
A00123-0007	7 ml
A00123-0025	25 ml

**CD45RB; Clone PD7/26 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: PD7/26  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naive B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

Catalog Number	Volume
A00130-0002	2 ml
A00130-0007	7 ml
A00130-0025	25 ml

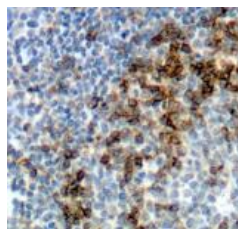
**CD45RO, T-Cell; Clone UCHL1 (Ready-To-Use)**

IVD

Species: Mouse Monoclonal  
 Clone: UCHL1  
 Isotype: IgG2a,k  
 Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.  
 Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

Catalog Number	Volume
A00024-0002	2 ml
A00024-0007	7 ml
A00024-0025	25 ml

CD45RO, T-Cell;  
Clone UCHL1 (Ready-To-Use)

**CD5 (Mantel Cell Lymphoma Marker); 4C7**

IVD

Species: Mouse Monoclonal  
 Clone: 4C7  
 Isotype: IgG1  
 Species Reactivity: Human

Specificity: This antibody recognizes a 67kD transmembrane protein, which is identified as CD5. The CD5 antigen is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cells. CD5 is expressed by many T cell leukemia, lymphomas, and activated T cells. Occasionally, CD5 antigen is also expressed on a subset of B cells. Mantle cell lymphomas (same as diffuse centrocytic lymphomas) are CD5+ while the follicle center cell lymphoma are CD5-.

<u>Catalog Number</u>	<u>Volume</u>
A20090	2 ml
A00090	6 ml Ready-to-use
A00090.0025	25 ml Ready-to-use
A00090.050	50 ml Ready-to-use

**CD56; Clone 123C3 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 123C3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.  
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

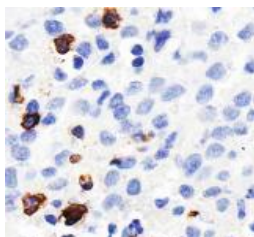
<u>Catalog Number</u>	<u>Volume</u>
A00121-0002	2 ml
A00121-0007	7 ml
A00121-0025	25 ml

**CD57 (HNK-1); Clone NK-1 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: NK-1  
 Isotype: Mouse IgM, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, spleen, lymph node.  
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-0002	2 ml
A00117-0007	7 ml
A00117-0025	25 ml



CD57 (HNK-1); Clone NK-1 (Ready-To-Use)

**CD74; Clone LN2 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: LN2  
 Isotype: IgG1,k  
 MW: 35 kD  
 Species Reactivity: Human

Specificity: This antibody reacts with 35 kD antigen present on the nuclear membrane protein related to the invariant chain of the HLA-Dr antigen. This antibody reacts with the germinal center and mantle zone B lymphocytes, interdigitating histiocytes in T cell zones and mononuclear cells and Reed-Sternberg cells in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00048-0002	2 ml
A00048-0007	7 ml
A00048-0025	25 ml

**CD75; Clone LN1**

IVD

Species: Mouse Monoclonal  
 Clone: LN1  
 Isotype: IgM,k  
 MW: 45-85 kD  
 Species Reactivity: Human

Specificity: This antibody reacts with 45-85 kD antigen present on the B cells derived from the germinal center. It reacts with the epithelial cells of breast, prostate, kidney, pancreas and lung.

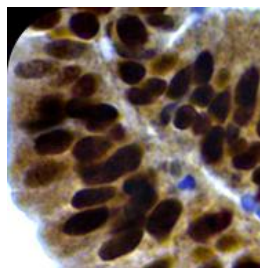
<u>Catalog Number</u>	<u>Volume</u>
A20047	2 ml Ready-to-use
A00047	6 ml Ready-to-use
A00047.0025	25 ml Ready-to-use

**CDX2; Clone EP25 (Ready-To-Use)**

IVD

Species: Rabbit  
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2.  
 Clone: EP25  
 Isotype: Rabbit IgG  
 Species Reactivity: Human  
 Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.  
 Specificity: CDX-2 expression is restricted to nuclear staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00147-0002	2 ml
A00147-0007	7 ml
A00147-0025	25 ml



CDX2; Clone EP25 (Ready-To-Use)

**c-erbB-2 Oncoprotein; Clone CB11**

IVD

Species: Mouse  
 Species: Mouse Monoclonal  
 Clone: CB11  
 Isotype: IgG1  
 Species Reactivity: Human.  
 Positive Control: Breast carcinoma (15-30% positive).  
 Cellular Localization: Membrane.

Specificity: This antibody will aid in determining the presence of c-erbB-2 oncoprotein (185 kD) in uncharacterized tissue. C-erbB-2 oncoprotein falls within the family of cell surface growth factor receptors. It is present on a number of normal fetal and adult tissues such as breast, stomach and ovary. It has also been documented as being present in a percentage of breast and other adenocarcinomas and transitional cell carcinomas.

Catalog Number	Volume
A20099	2 ml
A00099	6 ml
A00099.0025	25 ml

**c-erbB-2 Oncoprotein; Clone SP3**

IVD

Species: Rabbit  
 Clone: SP3  
 Mol. Weight: 185kD  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Breast carcinoma.  
 Cellular Localization: Cell membrane.

Specificity: c-erbB-2 is a receptor tyrosine of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. C-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas.

Catalog Number	Volume
A20100	2 ml
A00100	6 ml
A00100.0025	25 ml

**c-erbB-3 Oncoprotein; Clone RTJ.1**

IVD

Species: Mouse Monoclonal  
 Clone: RTJ.1  
 Isotype: IgM  
 MW: 160 kD  
 Species Reactivity: Human

Specificity: This antibody does not cross react with the other members of the type I growth factor receptor family. In human breast carcinoma cell lines, both cytoplasmic and membrane staining has been observed with this antibody. This antibody is useful in the study of c-erbB-2 expression in neoplastic and non-neoplastic diseases.

Catalog Number	Volume
A20053	2 ml Ready-to-use
A00053	6 ml Ready-to-use
A00053.0025	25 ml Ready-to-use

**Chromogranin A; Clone A3**

IVD

Species: Mouse Monoclonal  
 Clone: A3  
 Isotype: IgG2b,k  
 Species Reactivity: Human

Specificity: Chromogranin A is a 439 amino acid protein present in secretory granules of a wide variety of endocrine cells and neurons. A positive staining is seen in the secretory granules of parathyroid, adrenal medulla, anterior pituitary gland and Langerhans islets of the pancreas. This antibody stains a variety of neuroendocrine tumors.

Catalog Number	Volume
A20097	2 ml Ready-to-use
A00097	6 ml Ready-to-use
A00097.0025	25 ml Ready-to-use

**Cyclin D1; Clone DCS-6 (Ready-To-Use)**

IVD

Species: Mouse  
 Designation: Mouse Monoclonal  
 Clone: DCS-6  
 Isotype: IgG2a, Kappa  
 Species Reactivity: Human.  
 Cellular Localization: Nuclear.

Positive Control: Mantle cell lymphoma and breast carcinoma.  
 Specificity: The DCS-6 antibody is specific for cyclin D1, and has been key in elucidating the function and involvement of cyclin D1 in oncogenesis. Results with this antibody have helped to show that Cyclin D1 is over expressed in many different kinds of cancer. For example, about 50-70% of mantle cell lymphomas and 40% of breast carcinomas are cyclin D1.

Catalog Number	Volume
A00111-0002	2 ml
A00111-0007	7 ml
A00111-0025	25 ml

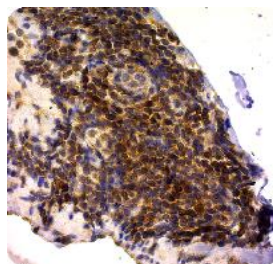
**Cyclin D3; Clone DCS-22**

IVD

Species: Mouse Monoclonal  
 Clone: DCS-22  
 Isotype: IgG1  
 Species Reactivity: Human

Specificity: The human cyclin D3 gene has been mapped to the 6p21 locus. Cyclin D3 binds and activates cdk4. Expression of cyclin D3 occurs late in G1 and unlike cyclins D1 and D2, it is not expressed in macrophages in response to CSF-1 stimulation. Cyclin D3 is regulated by growth factors in other cell types.

Catalog Number	Volume
A20055	2 ml Ready-to-use
A00055	6 ml Ready-to-use
A00055.0025	25 ml Ready-to-use



Cyclin D1; Clone DCS-6 (Ready-To-Use)

**Cytokeratin (45, 56, 56.5); Clone MNF116**

IVD

Species: Mouse Monoclonal  
 Clone: MNF116  
 Isotype: IgG1  
 MW: 45, 46, 56.5 kD  
 Species Reactivity: Human

Specificity: It shows a broad pattern of reactivity with human epithelial tissues from simple glandular epithelia to stratified squamous epithelia, like epidermis, mammary gland ducts and tracheal epithelium.

Catalog Number	Volume
A20096	2 ml Ready-to-use
A00096	6 ml Ready-to-use
A00096.0025	25 ml Ready-to-use

**Cytokeratin (Pan); Clone Cocktail (Ready-To-Use)**

Specificity: This antibody cocktail reacts with keratins 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 18, and 19. Cytokeratin (Pan) differentiates epithelial tumors from non-epithelial tumors.

IVD

Species: Mouse  
 Immunogen: Multiple  
 Clone: Multiple  
 Isotype: IgG  
 Species Reactivity: Human  
 Positive Control: Skin  
 Cellular Localization: Cytoplasmic

Catalog Number	Volume
A00098-0002	2 ml
A00098-0007	7 ml
A00098-0025	25 ml

**Cytokeratin 10 (56.5 kD); Clone DE-K10**

IVD

Species: Mouse Monoclonal  
 Clone: DE-K10  
 Isotype: IgG2a  
 MW: 56.5 kD  
 Species Reactivity: Human and Dog  
 Positive Control: Normal skin

Specificity: CK10 is expressed in all suprabasal layers of the epidermis. In the epidermis, expression of CK10 strictly parallels the extent of differentiation; it is absent in the basal layer, appears in the first suprabasal layers and increases in concentration towards the granular layer.

Catalog Number	Volume
A20089	2 ml Ready-to-use
A00089	6 ml Ready-to-use
A00089.0025	25 ml Ready-to-use



Cytokeratin (Pan);  
 Clone Cocktail (Ready-To-Use)

**Cytokeratin 19 (40 kD); Clone BA 17**

IVD

Species: Mouse Monoclonal  
 Clone: BA 17  
 Isotype: IgG1  
 MW: 40 kD  
 Species Reactivity: Human

Specificity: It is the smallest human keratin found in most simple and non-keratinizing stratified epithelia. This antigen is not present in adult intrafollicular epidermis. The antibody stains most of the epithelial cell types including ductal and glandular epithelia.

Catalog Number	Volume
A20094	2 ml Ready-to-use
A00094	6 ml Ready-to-use
A00094.0025	25 ml Ready-to-use

**Cytokeratin 19; Clone A53-B/A2.26 (Ready-To-Use)**

Species: Mouse  
 Clone: A53-B/A2.26 (Ks 19.1)  
 Isotype: Mouse IgG2a, Kappa

IVD

Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.  
 Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.

Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

Catalog Number	Volume
A00122-0002	2 ml
A00122-0007	7 ml
A00122-0025	25 ml

**Cytokeratin 20; Clone EP23 (Ready-To-Use)**

IVD

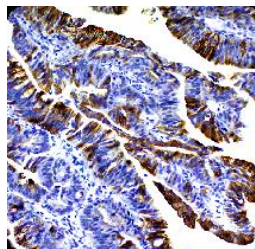
Species: Rabbit  
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus in human CK20 protein.

Clone: EP23  
 Isotype: Rabbit IgG  
 Species Reactivity: Human

Positive Control: Colon for normal tissue and colon cancer for abnormal tissue.

Specificity: CK20 expression is restricted to cytoplasmic / cell surface staining in positive cells.

Catalog Number	Volume
A00146-0002	2 ml
A00146-0007	7 ml
A00146-0025	25 ml



Cytokeratin 20;  
 Clone EP23 (Ready-To-Use)

**Cytokeratin 5,6 Cocktail; Clones EP42 & EP67 (Ready-To-Use)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal Cocktail  
 Clone: EP42 & EP67  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue, Lung Squamous Cell Carcinoma or Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 5,6 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5,6 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

Catalog Number	Volume
A00141-0002	2 ml
A00141-0007	7 ml
A00141-0025	25 ml

**Cytokeratin 5; Clone EP42 (Ready-To-Use)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP42  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 5 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

Catalog Number	Volume
A00139-0002	2 ml
A00139-0007	7 ml
A00139-0025	25 ml

**Cytokeratin 6; Clone EP67 (Ready-To-Use)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP67  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

Catalog Number	Volume
A00140-0002	2 ml
A00140-0007	7 ml
A00140-0025	25 ml

**Cytokeratin 7; Clone OV-TL12/30 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: OV-TL12/30  
 Isotype: IgG1  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.  
 Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

Catalog Number	Volume
A00142-0002	2 ml
A00142-0007	7 ml
A00142-0025	25 ml

**Cytokeratin 8; Clone K8/383 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: K8/383  
 Isotype: IgG1  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.  
 Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

Catalog Number	Volume
A00136-0002	2 ml
A00136-0007	7 ml
A00136-0025	25 ml

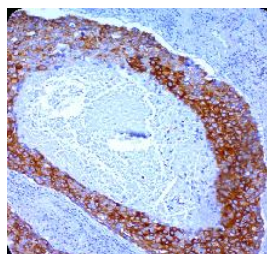
**Cytokeratin, High Molecular Weight; Clone 34bE12**

IVD

Species: Mouse Monoclonal  
 Clone: 34bE12  
 Isotype: IgG1k  
 MW: 68, 58, 56.5 and 50 kD  
 Species Reactivity: Human, Horse, Monkey, Rabbit  
 Positive Control: Any tissue containing squamous epithelium.

Specificity: This antibody stains squamous, ductal and other complex epithelium. This antibody reacts with squamous cell and ductal carcinomas of the breast, pancreas, bile duct and salivary gland, in addition to transitional cell carcinomas of the bladder and nasopharynx, thymomas, and epithelioid mesotheliomas. Mesenchymal tissues such as blood vessel, smooth muscle, skeletal muscle, dermis and nervous tissue are not stained.

Catalog Number	Volume
A20071	2 ml Ready-to-use
A00071	6 ml Ready-to-use
A00071.0025	25 ml Ready-to-use



Cytokeratin 8;  
 Clone K8/383 (Ready-To-Use)



**Cytokeratin, High Molecular Weight; Clone AE-3**

Species: Mouse Monoclonal  
 Clone: AE-3  
 Isotype: IgG1  
 MW: 58 and 65 to 67 kD  
 Species Reactivity: Human



Specificity: In keratinized epidermis, 58 kD keratin is present in the basal and suprabasal layers, while 65 to 67 kD keratin is present in the cells above the basal layers. This antibody can be used to stain different cell layers in epithelial tissue and various neoplasms of epithelial origin.

Catalog Number	Volume
A20052	2 ml Ready-to-use
A00052	6 ml Ready-to-use
A00052.0025	25 ml Ready-to-use

**Cytokeratin, Multi (Acidic); Clone AE1**

Species: Mouse Monoclonal  
 Clone: AE1  
 Isotype: IgG1  
 MW: 56.5, 50, 50', 48 and 40 kD  
 Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.  
 Positive Control: Human epidermal keratin or carcinoma. HT29 cells.



Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

Catalog Number	Volume
A20051	2 ml Ready-to-use
A00051	6 ml Ready-to-use
A00051.0025	25 ml Ready-to-use

**Cytokeratin, Pan; Clones AE1 & AE3 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1 & AE-3  
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.



Catalog Number	Volume
A00152-0002	2 ml
A00152-0007	7 ml
A00152-0025	25 ml

**Desmin, Clone D33**

Species: Mouse Monoclonal  
 Clone: D33  
 Isotype: IgG1,k  
 MW: 58 and 65 to 67 kD  
 Species Reactivity: Human, Baboon, Monkey, Cow, Cat, Dog, Hamster, Rat and Chicken.  
 Positive Control: Muscle or sarcoma.



Specificity: This antibody is highly specific to desmin and shows no cross-reaction with other intermediate filament proteins. Antibody to desmin reacts with striated (skeletal and cardiac) as well as smooth muscle cells. In skeletal and cardiac muscles, the staining is confined to the Z-bands giving a characteristic striated appearance. It reacts with leiomyosarcomas (smooth muscle) as well as rhabdomyosarcomas (striated muscle).

Catalog Number	Volume
A20007	2 ml Ready-to-use
A00007	6 ml Ready-to-use
A00007.0025	25 ml Ready-to-use

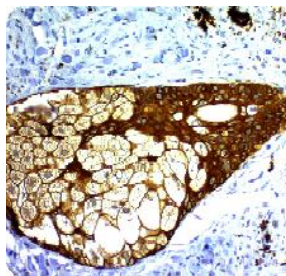
**Epithelial Membrane Antigen; Clone E29**

Species: Mouse Monoclonal  
 Clone: E29  
 Isotype: IgG2a  
 MW: 265-400 kD  
 Species Reactivity: Human  
 Positive Control: Breast or colon carcinoma



Specificity: In Western blotting, it recognizes two glycoproteins in MW range of 265-400kDa, identified as epithelial membrane antigen (EMA), or mucin 1 (MUC-1), or polymorphic epithelial mucin (PEM), or sialomucin, or episialin. In immunohistochemical assays, ScyTek's E29 stains routine formalin/paraffin carcinoma tissues without any special pretreatment. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Catalog Number	Volume
A20008	2 ml Ready-to-use
A00008	6 ml Ready-to-use
A00008.0025	25 ml Ready-to-use



Cytokeratin, Pan; Clones AE1 & AE3 (Ready-To-Use)



**Estrogen Receptor; Clone 11D5 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 11D5  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human  
 Positive Control: Breast Carcinoma.  
 Cellular Localization: Nuclei.

Specificity: This antibody is specific to estrogen receptor, which is associated with superior prognosis and a better response to endocrine therapy. The nuclei of the estrogen receptor positive cells stain very strongly with this antibody, without any staining in the cytoplasm. However, on cryostat sections a positive staining of estrogen receptor in the nucleus as well as cytoplasm can be seen. This antibody can be used for gel shift assay, immunoprecipitation, immunohistochemistry and western blotting.

Catalog Number	Volume
A00106-0002	2 ml
A00106-0007	7 ml
A00106-0025	25 ml

**Estrogen Receptor; Clone 1D5**

IVD

Species: Mouse Monoclonal  
 Clone: 1D5  
 Isotype: IgG1,k  
 MW: 67 kD

Specificity: Recognizes a protein of 67 kDa which is identified as estrogen receptor (ER). Its epitope maps in the N-terminal domain (A/B) of ER. The ER gene consists of more than 140kb of genomic DNA divided into 8 exons, being translated into a protein with six functionally discrete domains, labeled A through F.

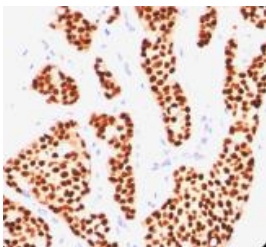
Catalog Number	Volume
A20010	2 ml Ready-to-use
A00010	6 ml Ready-to-use
A00010.0025	25 ml Ready-to-use

**Estrogen Receptor; Clone ERa078 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: ERa078  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Breast carcinoma.  
 Specificity: This antibody is specific for estrogen receptor.

Catalog Number	Volume
A00128-0002	2 ml
A00128-0007	7 ml
A00128-0025	25 ml



Estrogen Receptor;  
 Clone ERa078 (Ready-To-Use)

**Galactocerebroside A; Clone mGalC**

IVD

Species: Mouse Monoclonal  
 Clone: mGalC  
 Isotype: IgG3  
 Species Reactivity: Human, Bovine, Rat, Rabbit  
 Positive Control: Brain or Spinal Cord

Specificity: Galactocerebroside (GalC) is the major galactosphingolipid of myelin. It is located on the surfaces of oligodendrocytes of the central nervous system and Schwann cells in the peripheral system and plays an important role in myelination. Anti-GalC cross reacts with the sulfate ester of GalC, but to a 16 fold lesser extent. It does not cross-react with sphingosine, ceramide, mixed ganglioside, or glucocerebroside. Anti-GalC binds specifically to oligodendrocytes and Schwann cells.

Catalog Number	Volume
A20092	2 ml Ready-to-use
A00092	6 ml Ready-to-use
A00092.0025	25 ml Ready-to-use

**GFAP; Clone ASTRO/789 (Ready-To-Use)**

IVD

Species: Mouse  
 Immunogen: Recombinant GFAP protein  
 Clone: ASTRO/789  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.

Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

Catalog Number	Volume
A00158-0002	2 ml
A00158-0007	7 ml
A00158-0025	25 ml

**Glial Fibrillary Acidic Protein (GFAP); Clone GA-5 (Ready-To-Use)**

IVD

Species: Mouse  
 Immunogen: Porcine Spinal Chord  
 Mol. Weight: 51-52kDa  
 Clone: GA-5  
 Isotype: IgG1  
 Species Reactivity: Human, Pig, Rat, and Chicken. Others not tested.  
 Positive Control: IMR5, Brain, or Astrocytoma.  
 Cellular Localization: Cytoplasmic.

Specificity: Glial Fibrillary Acidic Protein (GFAP) is specific to astrocytes and ependymal cells of the central nervous system. This product effectively stains astrocytes, glial cells, ependymal cells and their associated tumors.

Catalog Number	Volume
A00102-0002	2 ml
A00102-0007	7 ml
A00102-0025	25 ml

**Hairy Cell Leukemia; Clone DBA.44**

IVD

Species: Mouse  
 Clone: DBA.44  
 Isotype: IgM, Kappa  
 Species Reactivity: Human

Specificity: This antibody reacts with over 97% of hairy cell leukaemia as well as about 35% of high grade B cell lymphomas. It reacts with B lymphocytes, cells of mantle zone and immunoblasts outside the lymphoid tissues.

Catalog Number	Volume
A20015	2 ml
A00015	6 ml Ready-to-use
A00015.0025	25 ml Ready-to-use

**Insulin; Clone 2D11-H5 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 2D11-H5  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Pig, Cow.  
 Positive Control: Pancreatic tissue.  
 Specificity: Detects insulin and insulin producing cells.

Catalog Number	Volume
A00114-0002	2 ml
A00114-0007	7 ml
A00114-0025	25 ml

**Kappa; Clone L1C1 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: L1C1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil.  
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

Catalog Number	Volume
A00113-0002	2 ml
A00113-0007	7 ml
A00113-0025	25 ml

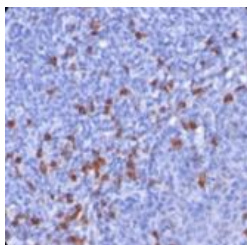
**Laminin, Clone LAM-89**

IVD

Species: Mouse  
 Clone: LAM-89  
 Isotype: IgG1

Specificity: Laminin stains the basement membrane strongly, with some weaker staining of the cytoplasm of epithelia surrounding blood vessels and nerves in established tissues, endothelia and smooth muscle.

Catalog Number	Volume
A20101	2 ml
A00101	6 ml
A00101.0025	25 ml



Kappa;  
 Clone L1C1 (Ready-To-Use)

**Laminin; Clone 4C7**

IVD

Species: Mouse Monoclonal  
 Clone: 4C7  
 Isotype: IgG2a  
 MW: 100 kD  
 Species Reactivity: Human. Not reactive with mouse or rat.

Specificity: The basement membrane (BM) is a component of the extracellular matrix and is composed of a variety of proteins, of which laminin is the most prevalent. Laminin is synthesized by fibroblasts in epithelial and endothelial cells, as well as smooth muscle cells. This protein normally contributes to the regulation of cell growth, cell attachment to the BM and to the morphology of cells and their migration.

The monoclonal labels trophoblastic cells of the villous trophoblastic epithelium in the placenta, and epithelia and BM in normal tonsil. Extensive studies of a variety of invasive and non-invasive carcinomas, including their benign counterparts, demonstrated a lack of immunoreactivity for laminin in the majority of invasive carcinomas. Benign or non-invasive lesions showed intact BM.

Catalog Number	Volume
A20079	2 ml Ready-to-use
A00079	6 ml Ready-to-use
A00079.0025	25 ml Ready-to-use

**MART-1; Clone M2-7C10 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: M2-7C10  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.  
 Positive Control: Metastatic melanoma in lymph nodes.  
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

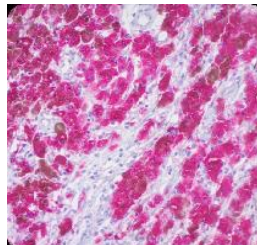
Catalog Number	Volume
A00115-0002	2 ml
A00115-0007	7 ml
A00115-0025	25 ml

**MART-1; Clone M2-9E2 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: M2-9E2  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human, Mouse, Rat.  
 Positive Control: Metastatic melanoma in lymph nodes.  
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

Catalog Number	Volume
A00116-0002	2 ml
A00116-0007	7 ml
A00116-0025	25 ml



MART-1;  
 Clone M2-9E2 (Ready-To-Use)

**MART-1; Clones M2-7C10 & M2-9E3 (Ready-To-Use)**

IVD

Species: Mouse  
 Clones: M2-7C10 & M2-9E3  
 Isotype: Mouse IgG2b, kappa  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma.  
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

Catalog Number	Volume
A00133-0002	2 ml
A00133-0007	7 ml
A00133-0025	25 ml

**Melanoma; Clone HMB45 (Ready-To-Use)**

IVD

Species: Mouse Monoclonal  
 Clone: HMB45  
 Isotype: IgG1 / Kappa  
 Species Reactivity: Human. Does not react with dog and rat.  
 Positive Control: Melanoma

Specificity: By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. Biochemical nature of its antigen is yet not fully characterized. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

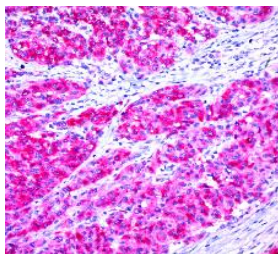
Catalog Number	Volume
A00019-0002	2 ml
A00019-0007	7 ml
A00019-0025	25 ml

**Melanoma; Pan (Ready-To-Use)**

IVD

Species: Mouse  
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

Catalog Number	Volume
A00134-0002	2 ml
A00134-0007	7 ml
A00134-0025	25 ml



Melanoma; Pan (Ready-To-Use)

**MIC2 Gene Protein, CD99; Clone HO36-1.1 (Ready-To-Use)**

IVD

Species: Mouse Monoclonal  
 Clone: HO36-1.1  
 Isotype: IgM  
 Species Reactivity: Human, Rat, Others not tested.  
 Positive Control: Pancreas or Ewing's sarcoma.  
 Cellular Localization: Cell Membrane.

Specificity: This antibody reacts with the MIC2 gene products expressed on the cell membrane of lymphocytes, cortical thymocytes, Langerhans' islet cells, granulosa cells of the ovary and Sertoli cells of the testis. This antibody reacts strongly with Ewing's Sarcoma and peripheral neuroectodermal tumors.

Catalog Number	Volume
A00044-0002	2 ml
A00044-0007	7 ml
A00044-0025	25 ml

**MSH6; Clone EP49 (Ready-To-Use)**

IVD

Species: Rabbit  
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues at the N-terminus in human MSH6 protein.  
 Clone: EP49  
 Isotype: Rabbit IgG  
 Species Reactivity: Human  
 Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.  
 Specificity: MSH6 is restricted to nuclear staining in positive cells.

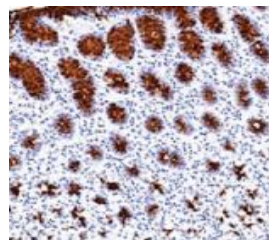
Catalog Number	Volume
A00149-0002	2 ml
A00149-0007	7 ml
A00149-0025	25 ml

**MUC5AC (Gastric Mucin); Clone 45M1 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 45M1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.  
 Positive Control: Stomach.  
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

Catalog Number	Volume
A00124-0002	2 ml
A00124-0007	7 ml
A00124-0025	25 ml



MUC5AC (Gastric Mucin); Clone 45M1 (Ready-To-Use)

**Napsin A; Clone EP205 (Ready-To-Use)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP205  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Lung Adenocarcinoma or Renal Cell Carcinoma.  
 Specificity: Napsin A is expressed in the cytoplasm of 84.5% of primary lung adenocarcinomas (ADC) and 79% of renal cell carcinomas showing a granular staining pattern. It is also been observed in the glandular component of the adenosquamous cell carcinoma, while cells in the squamous component remain negative. Napsin A expression has also been observed in normal type II pneumocytes and some alveolar macrophages near the neoplasms, while no expression is seen in type I pneumocytes, bronchiolar epithelium, bronchial epithelium and stromal cells.

Catalog Number	Volume
A00143-0002	2 ml
A00143-0007	7 ml
A00143-0025	25 ml

**Neurofilament; Clone 2F11 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 2F11  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.  
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

Catalog Number	Volume
A00020-0002	2 ml
A00020-0007	7 ml
A00020-0025	25 ml

**p21; Clone WA-1 (HJ21) (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: WA-1 (HJ21)  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Colon Carcinoma.  
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

Catalog Number	Volume
A00125-0002	2 ml
A00125-0007	7 ml
A00125-0025	25 ml

**p53 Cocktail; Clones Pab 1801 plus DO-7**

IVD

Species: Mouse  
 Clone: Pab1801 & DO-7  
 Isotype: IgG1 & IgG2b, Kappa  
 MW: 53 kD  
 Species Reactivity: Human  
 Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: This antibody reacts with wild as well as mutant types of p53 protein. It recognizes an epitope in the N-terminus of p53 protein. p53 is a 53 kD phosphoprotein known as tumor suppressor gene product. About 50% of breast carcinomas are positive for p53 especially those lacking estrogen and/or progesterone receptors. This antibody can be demonstrated in 22-76% of colon, stomach, bladder, breast, lung and testes cancers. Its epitope maps within the N-terminus (aa 32-79) of p53.

Catalog Number	Volume
A20093	2 ml Ready-to-use
A00093	6 ml Ready-to-use
A00093.0025	25 ml Ready-to-use

**p53; Clone BP53-12 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: BP53-12  
 Isotype: IgG2a, Kappa  
 Species Reactivity: Human. Will not cross-react with mouse or rat.

Cellular Localization: Nuclear.  
 Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

Catalog Number	Volume
A00109-0002	2 ml
A00109-0007	7 ml
A00109-0025	25 ml

**p53; Clone DO-1**

IVD

Species: Mouse Monoclonal  
 Clone: DO-1  
 Isotype: IgG2a  
 MW: 53 kD  
 Species Reactivity: Human, Monkey, Cow, and weak reaction with Mouse and Rat.  
 Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: Recognizes a 53kDa phosphoprotein, identified as p53 suppressor gene product. It reacts with mutant as well as wild form of p53. Its epitope maps within the N-terminus (aa37-45) of p53. Monoclonal antibody Pab 1801 does not block the binding of DO-1 to p53 in an ELISA test.

Catalog Number	Volume
A20027	2 ml Ready-to-use
A00027	6 ml Ready-to-use
A00027.0025	25 ml Ready-to-use

**p53; Clone DO-7 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: DO-7  
 Isotype: IgG2b,k  
 MW: 53 kD  
 Species Reactivity: Human, Monkey, and Cow  
 Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: Recognizes a 53kDa phosphoprotein, identified as p53 suppressor gene product. It reacts with mutant as well as wild form of p53. Its epitope maps within the N-terminus (aa37-45) of p53. Monoclonal antibody Pab 1801 does not block the binding of DO-1 to p53 in an ELISA test.

Catalog Number	Volume
A00021-0002	2 ml
A00021-0007	7 ml
A00021-0025	25 ml

**PCNA; Clone PC10**

IVD

Species: Mouse Monoclonal  
 Clone: PC10  
 Isotype: IgG2a/k  
 MW: 36 kD  
 Species Reactivity: Human, Murine, Insect, and Yeast  
 Positive Control: Tonsil or reactive lymph node.

Specificity: Recognizes a non-histone protein of 36kDa which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein. Elevated expression of PCNA/cyclin has been shown in the nucleus during late G1 phase immediately before the onset of DNA synthesis, becoming maximal during S-phase and declining during G2 and M phases.

Catalog Number	Volume
A20022	2 ml Ready-to-use
A00022	6 ml Ready-to-use
A00022.0025	25 ml Ready-to-use

**Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Ready-To-Use)**

IVD

Species: Mouse  
 Immunogen: Recombinant human PLAP protein  
 Clone: ALP/870  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

Catalog Number	Volume
A00154-0002	2 ml
A00154-0007	7 ml
A00154-0025	25 ml

**PSA (Prostate Specific Antigen); Clone ER-PR8**

IVD

Species: Mouse Monoclonal  
 Clone: ER-PR8  
 Isotype: IgG1/k  
 MW: 33-34 kD  
 Species Reactivity: Human. Does not react with dog.  
 Positive Control: Normal prostate or prostate carcinoma.

Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). Although the epitopes for Ab-1 and Ab-2 are not precisely mapped, experimental data suggest that they are different. ER-PR8 is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues. PSA is a chymotrypsin-like serine protease (kallikrein family) produced by the prostate epithelium, and abundant in seminal fluid. It is predominantly complexed to a liver-derived serine protease inhibitor, alpha-1-antichymotrypsin (ACT). A higher proportion of serum PSA is complexed to ACT in prostate cancer than in benign prostate hyperplasia.

Catalog Number	Volume
A20068	2 ml Ready-to-use
A00068	6 ml Ready-to-use
A00068.0025	25 ml Ready-to-use

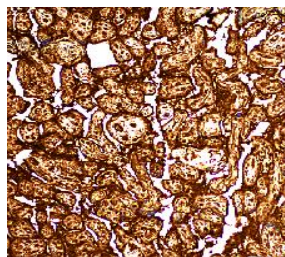
**PSAP (Prostate Specific Acid Phosphatase); Clone PASE/4LJ**

IVD

Species: Mouse Monoclonal  
 Clone: PASE/4LJ  
 Isotype: IgG1  
 MW: 52 kD  
 Species Reactivity: Human, Dog, Rabbit, and Rat.  
 Positive Control: Normal prostate or prostate carcinoma.

Specificity: Recognizes a protein of 52kDa, identified as prostate specific acid phosphatase (PSAP). PASE/4LJ is highly specific to PSAP and shows no cross-reaction with other phosphatases. It does not inhibit the enzymatic activity of PSAP. This antibody reacts with non-neoplastic adult and fetal prostatic glands, primary and metastatic prostatic carcinomas. ScyTek's PASE/4LJ is recommended for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues. Unlike polyclonal antibody to PSAP, PASE/4LJ Mab shows no staining in granulocytes, osteoclasts, parietal cells of the stomach, liver cells, renal cell or breast carcinomas.

Catalog Number	Volume
A20041	2 ml Ready-to-use
A00041	6 ml Ready-to-use
A00041.0025	25 ml Ready-to-use



Placental Alkaline Phosphatase (PLAP);  
 Clone ALP/870 (Ready-To-Use)



**Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 66.4.C2  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human, Horse. Others not tested.  
 Positive Control: Kidney.  
 Specificity: The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells. In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal tubules in human kidneys. Gp200 is also expressed in some non-kidney tissues including breast tubules and ducts, the surface of epididymal tubular epithelia, and the colloid of thyroid follicles. However because of the reported high expression of gp200 in renal cell carcinoma, gp200 is most commonly referred to as Renal Cell Carcinoma Marker.

<u>Catalog Number</u>	<u>Volume</u>
A00118-0002	2 ml
A00118-0007	7 ml
A00118-0025	25 ml

**S-100; Clone 4C4.9 (Ready-To-Use)**

IVD

Species: Mouse Monoclonal  
 Clone: 4C4.9  
 Isotype: IgG2a  
 MW: 21-24 kD  
 Species Reactivity: Human, Cow, Mouse  
 Positive Control: Melanoma or Schwannoma.

Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

<u>Catalog Number</u>	<u>Volume</u>
A00087-0002	2 ml
A00087-0007	7 ml
A00087-0025	25 ml

**Secretory Component; Clone SC05 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: SC05  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: Breast carcinoma, Lung, Stomach.  
 Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-0002	2 ml
A00127-0007	7 ml
A00127-0025	25 ml

**Thyroglobulin; Clone 2H11 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 2H11  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human  
 Cellular Localization: Cytoplasmic  
 Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease. Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-0002	2 ml
A00108-0007	7 ml
A00108-0025	25 ml

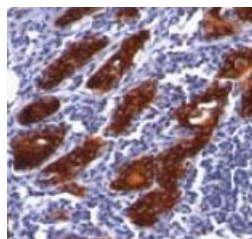
**Topoisomerase II; Clone 3F6**

IVD

Species: Mouse  
 Clone: 3F6  
 Isotype: IgG1  
 Species Reactivity: Human

Specificity: This antibody is specific to human topoisomerase II. Topoisomerase II is predominant in proliferating cells and is modified in M phase by phosphorylation at specific sites. This appears to be critical for mitotic chromosome condensation and segregation.

<u>Catalog Number</u>	<u>Volume</u>
A20088	2 ml Ready-to-use
A00088	6 ml Ready-to-use
A00088.0025	25 ml Ready-to-use



Thyroglobulin;  
 Clone 2H11 (Ready-To-Use)



**TTF-1; Clone 8G7G3/1 (Ready-To-Use)**

IVD

Species: Mouse  
 Designation: Mouse Monoclonal  
 Clone: 8G7G3/1  
 Isotype: IgG1  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Adenocarcinoma of the Lung or Thyroid.  
 Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

Catalog Number	Volume
A00144-0002	2 ml
A00144-0007	7 ml
A00144-0025	25 ml

**Tyrosinase; Clone T311 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: T311  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Tyrosinase has been shown to be a very specific marker for melanomas. Cross reactivity with other tumors or normal tissues tested has not been reported.

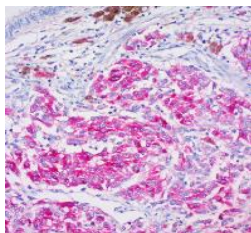
Catalog Number	Volume
A00132-0002	2 ml
A00132-0007	7 ml
A00132-0025	25 ml

**Uchl1 (PGP9.5); Clone 31A3 (Ready-To-Use)**

IVD

Species: Mouse  
 Clone: 31A3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Cow, Human, Mouse, Pig, Rat.  
 Positive Control: Brain.  
 Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

Catalog Number	Volume
A00120-0002	2 ml
A00120-0007	7 ml
A00120-0025	25 ml



Tyrosinase;  
 Clone T311 (Ready-To-Use)

**Vimentin; Clone SP20**

IVD

Species: Rabbit  
 Immunogen: Recombinant protein encoding human vimentin.  
 Mol. Weight: 57-60kDa  
 Clone: SP20  
 Isotype: IgG  
 Specificity: This antibody selectively stains vimentin in human tissue sections. Vimentin is the main intermediate filament in mesenchymal cells and is therefore of value in the differential diagnosis of undifferentiated neoplasms.  
 Species Reactivity: Human. Others not tested.

Catalog Number	Volume
A20105	2 ml
A00105	6 ml
A00105.0025	25 ml

**Vimentin; Clone V9**

IVD

Species: Mouse Monoclonal  
 Clone: V9  
 Isotype: IgG1/k  
 MW: 57-60 kD  
 Species Reactivity: Human, Monkey, Cow, Horse, Pig, Rabbit, Dog, Cat, Rat, Mouse, Hamster, Gerbil and Chicken.  
 Positive Control: Sarcomas, meningiomas, or melanomas.

Specificity: Recognizes a 57-60kDa protein which is identified as vimentin. It shows no cross reactivity with other closely related intermediate filament proteins including desmin and GFAP.

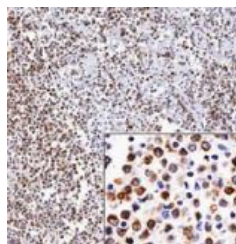
Catalog Number	Volume
A20045	2 ml Ready-to-use
A00045	6 ml Ready-to-use
A00045.0025	25 ml Ready-to-use

**Monoclonal Concentrates****Bcl-2; Clone 100/D5 (Concentrate)**

IVD

Species: Mouse  
 Clone: 100/D5  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Monkey. Others not tested.  
 Positive Control: Tonsil.  
 Cellular Localization: Cytoplasmic & Cell Membrane.  
 Specificity: Human Bcl-2 alpha is a 239 amino acid (aa) protein and human Bcl-2 beta is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

Catalog Number	Volume
A00119-C	1 ml



Bcl-2; Clone 100/D5 (Concentrate)

**CA19-9; Clone 121SLE (Concentrate)**

IVD

Species: Mouse  
 Clone: 121SLE  
 Isotype: IgM, Kappa  
 Species Reactivity: Human  
 Cellular Localization: Lumenal surface and cytoplasm.  
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewisia structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewisia and/or Lewisb blood group antigens. In normal tissues, sialyl Lewisia antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-C	1 ml

**Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Concentrate)**

IVD

Species: Mouse  
 Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.  
 Clone: COL-1  
 Isotype: IgG1 Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Colon Adenocarcinoma.  
 Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00135-C	1 ml

**CD15; Clone Leu-M1 (Concentrate)**

IVD

Species: Mouse  
 Immunogen: U937 histiocytic cell line  
 Clone: Leu-M1 (same as MMA)  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

<u>Catalog Number</u>	<u>Volume</u>
A00151-C.1	0.1 ml

**CD31; Clone C31.3 (Concentrate)**

IVD

Species: Mouse  
 Clone: C31.3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Liver, Kidney.  
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-C	1 ml

**CD31; Clone C31.7 (Concentrate)**

IVD

Species: Mouse  
 Clone: C31.7  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil  
 Cellular Localization: Primarily membrane.  
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-C	1 ml

**CD45; Clone 2B11 (Concentrate)**

IVD

Species: Mouse  
 Clone: 2B11  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil.  
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-C	1 ml

**CD45RA (LCA); Clone 158-4D3 (Concentrate)**

IVD

Species: Mouse  
 Clone: 158-4D3  
 Isotype: Mouse IgG2a, Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Tonsil, Spleen.  
 Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-C	1 ml

**CD45RB; Clone PD7/26 (Concentrate)**

IVD

Species: Mouse  
 Clone: PD7/26  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Tonsil.  
 Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-C	1 ml

**CD56; Clone 123C3 (Concentrate)**

IVD

Species: Mouse  
 Clone: 123C3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.  
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-C	1 ml

**CD57 (HNK-1); Clone NK-1 (Concentrate)**

IVD

Species: Mouse  
 Clone: NK-1  
 Isotype: Mouse IgM, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, spleen, lymph node.  
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-C	1 ml

**Cyclin D1; Clone DCS-6 (Concentrate)**

IVD

Species: Mouse  
 Designation: Mouse Monoclonal  
 Clone: DCS-6  
 Isotype: IgG2a, Kappa  
 Species Reactivity: Human.  
 Positive Control: Mantle cell lymphoma and breast carcinoma.  
 Cellular Localization: Nuclear.  
 Specificity: The DCS-6 antibody is specific for cyclin D1, and has been key in elucidating the function and involvement of cyclin D1 in oncogenesis. Results with this antibody have helped to show that Cyclin D1 is over expressed in many different kinds of cancer. For example, about 50-70% of mantle cell lymphomas and 40% of breast carcinomas are cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00111-C	1 ml

**Cytokeratin 19; Clone A53-B/A2.26 (Concentrate)**

IVD

Species: Mouse  
 Clone: A53-B/A2.26 (Ks 19.1)  
 Isotype: Mouse IgG2a, Kappa  
 Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.  
 Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.  
 Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122-C	1 ml

**Cytokeratin 5,6 Cocktail; Clones EP42 & EP67 (Concentrate)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal Cocktail  
 Clone: EP42 & EP67  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue, Lung Squamous Cell Carcinoma or Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 5,6 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5,6 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00141-C	1 ml

**Cytokeratin 5; Clone EP42 (Concentrate)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP42  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 5 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

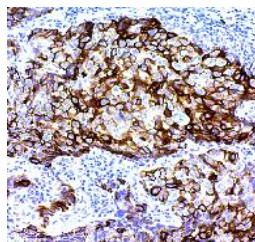
<u>Catalog Number</u>	<u>Volume</u>
A00139-C	1 ml

**Cytokeratin 6; Clone EP67 (Concentrate)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP67  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

<u>Catalog Number</u>	<u>Volume</u>
A00140-C	1 ml



Cytokeratin 6; Clone EP67 (Concentrate)

**Cytokeratin 7; Clone OV-TL12/30 (Concentrate)**

IVD

Species: Mouse  
Clone: OV-TL12/30  
Isotype: IgG1

Species Reactivity: Human. Others not tested.  
Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.  
Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointerstitial epithelium, prostate, hepatocyte and squamous epithelium.

Catalog Number	Volume
A00142-C	1 ml

**Cytokeratin 8; Clone K8/383 (Concentrate)**

IVD

Species: Mouse  
Clone: K8/383  
Isotype: IgG1

Species Reactivity: Human, Rat. Others not tested.  
Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.  
Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

Catalog Number	Volume
A00136-C	1 ml

**Estrogen Receptor; Clone 11D5 (Concentrate)**

IVD

Species: Mouse  
Clone: 11D5  
Isotype: IgG1, Kappa  
Species Reactivity: Human  
Positive Control: Breast Carcinoma.  
Cellular Localization: Nuclei.

Specificity: This antibody is specific to estrogen receptor, which is associated with superior prognosis and a better response to endocrine therapy. The nuclei of the estrogen receptor positive cells stain very strongly with this antibody, without any staining in the cytoplasm. However, on cryostat sections a positive staining of estrogen receptor in the nucleus as well as cytoplasm can be seen. This antibody can be used for gel shift assay, immunoprecipitation, immunohistochemistry and western blotting.

Catalog Number	Volume
A00106-C	1 ml

**Estrogen Receptor; Clone ERa078 (Concentrate)**

IVD

Species: Mouse  
Clone: ERa078  
Isotype: Mouse IgG1, Kappa  
Species Reactivity: Human.

Positive Control: Breast carcinoma.  
Specificity: This antibody is specific for estrogen receptor.

Catalog Number	Volume
A00128-C	1 ml

**GFAP; Clone ASTRO/789 (Concentrate)**

IVD

Species: Mouse  
Immunogen: Recombinant GFAP protein  
Clone: ASTRO/789

Isotype: IgG1  
Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.  
Positive Control: Brain or Astrocytoma.  
Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

Catalog Number	Volume
A00158-C.1	0.1 ml

**Insulin; Clone 2D11-H5 (Concentrate)**

IVD

Species: Mouse  
Clone: 2D11-H5  
Isotype: Mouse IgG1, Kappa  
Species Reactivity: Human, Pig, Cow.  
Positive Control: Pancreatic tissue.  
Specificity: Detects insulin and insulin producing cells.

Catalog Number	Volume
A00114-C	1 ml

**Kappa; Clone L1C1 (Concentrate)**

IVD

Species: Mouse  
Clone: L1C1  
Isotype: Mouse IgG1, Kappa  
Species Reactivity: Human.  
Positive Control: Tonsil.  
Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

Catalog Number	Volume
A00113-C	1 ml

**MART-1; Clone M2-7C10 (Concentrate)**

IVD

Species: Mouse  
Clone: M2-7C10  
Isotype: Mouse IgG2b, Kappa  
Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.  
Positive Control: Metastatic melanoma in lymph nodes.  
Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

Catalog Number	Volume
A00115-C	1 ml

**MART-1; Clone M2-9E2 (Concentrate)**

IVD

Species: Mouse  
Clone: M2-9E2  
Isotype: Mouse IgG2b, Kappa  
Species Reactivity: Human, Mouse, Rat.  
Positive Control: Metastatic melanoma in lymph nodes.  
Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

Catalog Number	Volume
A00116-C	1 ml

**MART-1; Clones M2-7C10 & M2-9E3 (Concentrate)**

IVD

Species: Mouse  
 Clones: M2-7C10 & M2-9E3  
 Isotype: Mouse IgG2b, kappa  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma.  
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-C	1 ml

**Melanoma; Clone HMB45 (Concentrate)**

IVD

Species: Mouse  
 Clone: HMB45  
 Isotype: Mouse IgG1/ Kappa  
 Species Reactivity: Human. Does not react with dog and rat.  
 Positive Control: Human Melanoma  
 Specificity: HMB45 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00019-C	1 ml

**Melanoma; Pan (Concentrate)**

IVD

Species: Mouse  
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

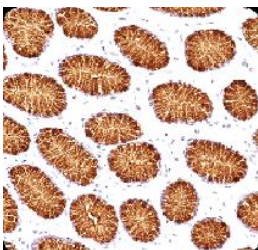
<u>Catalog Number</u>	<u>Volume</u>
A00134-C	1 ml

**MUC5AC (Gastric Mucin); Clone 45M1 (Concentrate)**

IVD

Species: Mouse  
 Clone: 45M1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.  
 Positive Control: Stomach.  
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-C	1 ml



MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)

**Napsin A; Clone EP205 (Concentrate)**

IVD

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP205  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Lung Adenocarcinoma or Renal Cell Carcinoma.  
 Specificity: Napsin A is expressed in the cytoplasm of 84.5% of primary lung adenocarcinomas (ADC) and 79% of renal cell carcinomas showing a granular staining pattern. It is also observed in the glandular component of the adenosquamous cell carcinoma, while cells in the squamous component remain negative. Napsin A expression has also been observed in normal type II pneumocytes and some alveolar macrophages near the neoplasms, while no expression is seen in type I pneumocytes, bronchiolar epithelium, bronchial epithelium and stromal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00143-C	1 ml

**Neurofilament; Clone 2F11 (Concentrate)**

IVD

Species: Mouse  
 Clone: 2F11  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.  
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

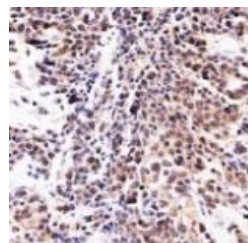
<u>Catalog Number</u>	<u>Volume</u>
A00020-C	1 ml

**p21; Clone WA-1 (HJ21) (Concentrate)**

IVD

Species: Mouse  
 Clone: WA-1 (HJ21)  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Colon Carcinoma.  
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-C	1 ml



p21; Clone WA-1 (HJ21) (Concentrate)



**p53; Clone BP53-12 (Concentrate)**

IVD

Species: Mouse  
 Clone: BP53-12  
 Isotype: IgG2a, Kappa  
 Species Reactivity: Human. Will not cross-react with mouse or rat.  
 Cellular Localization: Nuclear.  
 Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-C	1 ml

**Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Concentrate)**

IVD

Species: Mouse  
 Immunogen: Recombinant human PLAP protein  
 Clone: ALP/870  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-C.1	0.1 ml

**Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Concentrate)**

IVD

Species: Mouse  
 Clone: 66.4.C2  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human, Horse. Others not tested.  
 Positive Control: Kidney.  
 Specificity: The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells. In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal tubules in human kidneys. Gp200 is also expressed in some non-kidney tissues including breast tubules and ducts, the surface of epididymal tubular epithelia, and the colloid of thyroid follicles. However because of the reported high expression of gp200 in renal cell carcinoma, gp200 is most commonly referred to as Renal Cell Carcinoma Marker.

<u>Catalog Number</u>	<u>Volume</u>
A00118-C	1 ml

**Secretory Component; Clone SC05 (Concentrate)**

IVD

Species: Mouse  
 Clone: SC05  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: Breast carcinoma, Lung, Stomach.  
 Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-C	1 ml

**Thyroglobulin; Clone 2H11 (Concentrate)**

IVD

Species: Mouse  
 Clone: 2H11  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human  
 Cellular Localization: Cytoplasmic  
 Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease. Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-C	1 ml

**TTF-1; Clone 8G7G3/1 (Concentrate)**

IVD

Species: Mouse  
 Designation: Mouse Monoclonal  
 Clone: 8G7G3/1  
 Isotype: IgG1  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Adenocarcinoma of the Lung or Thyroid.  
 Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-C	1 ml

**Tyrosinase; Clone T311 (Concentrate)**

IVD

Species: Mouse  
 Clone: T311  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Tyrosinase has been shown to be a very specific marker for melanomas, not cross reacting with other tumors or normal tissues tested.

<u>Catalog Number</u>	<u>Volume</u>
A00132-C	1 ml



**Uchl1 (PGP9.5); Clone 31A3 (Concentrate)**

IVD

Species: Mouse

Clone: 31A3

Isotype: Mouse IgG1, Kappa

Species Reactivity: Cow, Human, Mouse, Pig, Rat.

Positive Control: Brain.

Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-C	1 ml

**Multiplex Cocktail****CDX-2 & CEA Multiplex Cocktail; Clones EP25 & COL-1 (Ready-To-Use)**

IVD

Species: Rabbit and Mouse

Designation: Cocktail of Rabbit and Mouse Monoclonal Antibodies to CDX-2 and CEA.

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with Human colon carcinoma cell extracts (CEA).

Mol. Weight: Unknown

Clone: EP25 &amp; COL-1

Isotype: Rabbit IgG and Mouse IgG1, respectively.

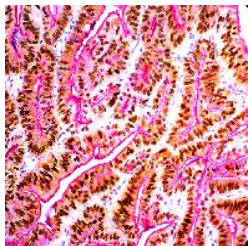
Species Reactivity: Human

Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

CEA: Adenocarcinoma of colon, intestine, ovary, lung, cervix, gallbladder, stomach.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CEA expression is restricted mostly to the lumen of colorectal crypts. The CEA antibody (COL-1) shows no reaction with a variety of normal tissues. CEA is not found in benign glands, stroma, or malignant prostatic cells. CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, gallbladder, urachus, salivary gland, ovary, and endocervix.

<u>Catalog Number</u>	<u>Volume</u>
A00150-0002	2 ml
A00150-0007	7 ml
A00150-0025	25 ml



CDX-2 & CEA Multiplex Cocktail;  
Clones EP25 & COL-1 (Ready-To-Use)

**CDX2 & Cytokeratin 7 Multiplex Cocktail; Clones EP25 & OV-TL12/30 (Ready-To-Use)**

IVD

Species: Rabbit and Mouse

Designation: Cocktail of Rabbit and Mouse monoclonal antibodies to CDX-2 and CK7.

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with OTN11-ovarian cell carcinoma cell line.

Mol. Weight: Unknown

Clone: Clones EP25 and OV-TL12/30

Isotype: Rabbit IgG and Mouse IgG1, respectively.

Species Reactivity: Human

Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

CK7: Carcinoma of ovary, lung, cervix, or breast.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CK7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder, and the female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte, and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00148-0002	2 ml
A00148-0007	7 ml
A00148-0025	25 ml

**TTF-1 & Cytokeratin 5 Multiplex Cocktail; Clones 8G7G3/1 & EP42 (Ready-To-Use)**

IVD

Species: Mouse &amp; Rabbit

Designation: Mouse Monoclonal &amp; Rabbit Monoclonal

Clones: 8G7G3/1 &amp; EP42

Isotype: IgG1 &amp; IgG

Species Reactivity: Human. Others not tested.

Positive Control: Adenocarcinoma of the Lung or Thyroid for TTF-1. Skin for normal tissue and Mesothelioma for abnormal tissue for Cytokeratin 5.

Principle: Multiplex IHC staining allows simultaneous testing of two or more analytes on a single tissue section utilizing different colors for each antigenic target.

Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

Cytokeratin 5 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

This Multiplex cocktail of TTF-1 and Cytokeratin 5 produces two-color high contrast staining for differentiating primary adenocarcinoma of the Lung from Metastatic Carcinomas of the breast and Malignant Mesothelioma.

<u>Catalog Number</u>	<u>Volume</u>
A00145-0002	2 ml
A00145-0007	7 ml
A00145-0025	25 ml

## Polyclonal Ready-to-Use

### Alpha1-Antichymotrypsin

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human. Shows no cross-reactivity with horse, sheep, swine, goat, cow, dog, cat, chicken, rat, mouse, mink, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages and monocytes in human colon, tonsil and skin.

Catalog Number	Volume
A20073	2 ml Ready-to-use
A00073	6 ml Ready-to-use
A00073.0025	25 ml Ready-to-use

### Alpha1-Antitrypsin

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human and Swine. Stains weakly with horse, dog and mink, and shows no cross-reactivity with sheep, goat, cow, cat, chicken, rat, mouse, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages in human colon and tonsil.

Catalog Number	Volume
A20074	2 ml Ready-to-use
A00074	6 ml Ready-to-use
A00074.0025	25 ml Ready-to-use

### Alpha1-Fetoprotein (AFP)

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody reacts with alpha-1-fetoprotein. A positive staining in the hepatocytes of fetal tissue was observed. This antibody does not react with other cell or tissue types.

Catalog Number	Volume
A20058	2 ml Ready-to-use
A00058	6 ml Ready-to-use
A00058.0025	25 ml Ready-to-use

### Calcitonin

IVD

Species: Rabbit

Clone: Polyclonal

Specificity: This antibody reacts with the mu-chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

Catalog Number	Volume
A20080	2 ml Ready-to-use
A00080	6 ml Ready-to-use
A00080.0025	25 ml Ready-to-use

### Cathepsin D

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Positive Control: Macrophages in breast carcinoma.

Specificity: This antibody reacts with the zymogen as well as the activated form of cathepsin D. It stains fibroblasts and macrophages strongly but stains myoepithelial cells of breast weakly. In addition, this antibody stains the sweat ducts and glands in the skin, islet cells and granules of pancreatic acini.

Catalog Number	Volume
A20032	2 ml Ready-to-use
A00032	6 ml Ready-to-use
A00032.0025	25 ml Ready-to-use

### CD3, T-Cell

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Positive Control: Tonsil

Specificity: This antibody reacts with intracytoplasmic portion of the CD3 antigen on the T cells. It stains T cells in cortex as well as medulla of the thymus and lymphoid tissues. This antibody also labels T cell neoplasm, malignant histiocytes and in Hodgkin's disease.

Catalog Number	Volume
A20030	2 ml Ready-to-use
A00030	6 ml Ready-to-use
A00030.0025	25 ml Ready-to-use

### c-erbB-2 Oncoprotein

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

MW: 190 kD

Species Reactivity: Human

Specificity: This antibody reacts with the c-erbB-2 oncoprotein, a 190 kD protein. The proto-oncogene for c-erbB-2 is located on the human chromosome 17, band 21.

Catalog Number	Volume
A20031	2 ml Ready-to-use
A00031	6 ml Ready-to-use
A00031.0025	25 ml Ready-to-use

### Chromogranin A

IVD

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody reacts with human chromogranin A in the neuroendocrine cells and neural tissues. It does not recognize the epitopes located on the N-terminal half of the chromogranin A molecule.

Catalog Number	Volume
A20054	2 ml Ready-to-use
A00054	6 ml Ready-to-use
A00054.0025	25 ml Ready-to-use

**Factor VIII Related Antigen**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 MW: 270 kD  
 Species Reactivity: Human  
 Positive Control: Blood vessels in skin or intestine

Specificity: Recognizes a multimeric glycoprotein of 270kDa, identified as factor VIII related antigen or von Willebrand factor. This protein has functional binding domains to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. Von Willebrand factor is synthesized by endothelial cells and stored in the Weibel-Palade granules. It mediates platelet adhesion to injured vessel walls and serves as a carrier and stabilizer for coagulation factor VIII. ScyTek's antibody reacts specifically with the endothelial cells of normal, reactive, and neoplastic blood and lymphatic vessels and shows a finely granular cytoplasmic staining. It also reacts with endocardium, platelets and megakaryocytes. Von Willebrand factor is one of the most useful markers to identify endothelial (or megakaryocytic) lineage of neoplasms. However, because not all endothelial cells synthesize (or store) this molecule, about 30% of tumors of vascular origin fail to stain for factor VIII related antigen, regardless of whether they are benign or malignant.

<u>Catalog Number</u>	<u>Volume</u>
A20059	2 ml Ready-to-use
A00059	6 ml Ready-to-use
A00059.0025	25 ml Ready-to-use

**HbcAg - Hepatitis B Virus Core**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts in the nuclei of the liver cells of the Hepatitis type B virus infected patients. However, occasional staining may also be seen in the perinuclear cytoplasm of the infected cells.

<u>Catalog Number</u>	<u>Volume</u>
A20060	2 ml Ready-to-use
A00060	6 ml Ready-to-use
A00060.0025	25 ml Ready-to-use

**IgA**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with alpha-chains of human Ig A. This antibody has been absorbed to a very high level of specificity.

<u>Catalog Number</u>	<u>Volume</u>
A20061	2 ml Ready-to-use
A00061	6 ml Ready-to-use
A00061.0025	25 ml Ready-to-use

**IgG**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with gamma-chains of human IgA. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20062	2 ml Ready-to-use
A00062	6 ml Ready-to-use
A00062.0025	25 ml Ready-to-use

**IgM**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with the m chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20063	2 ml Ready-to-use
A00063	6 ml Ready-to-use
A00063.0025	25 ml Ready-to-use

**Kappa Light Chain**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with free as well as bound kappa light chains. Contaminating antibodies have been removed by solid phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20064	2 ml Ready-to-use
A00064	6 ml Ready-to-use
A00064.0025	25 ml Ready-to-use

**Ki-67 Antigen**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with a nuclear antigen present in proliferating human cells. This antibody cross-reacts with a range of mammalian species.

<u>Catalog Number</u>	<u>Volume</u>
A20095	2 ml Ready-to-use
A00095	6 ml Ready-to-use
A00095.0025	25 ml Ready-to-use

**Lambda Light Chain**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with free as well as bound lambda light chains. Contaminating antibodies have been removed by solid phase absorption.

Catalog Number	Volume
A20065	2 ml Ready-to-use
A00065	6 ml Ready-to-use
A00065.0025	25 ml Ready-to-use

**Lysozyme**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human, Baboon, Monkey, Pig, Cat, Dog, Mouse and Rat.  
 Positive Control: Tonsil, colon or skin

Specificity: This polyclonal antibody recognizes a protein, identified as lysozyme, also known as muramidase. This antibody was adsorbed with human plasma and urine proteins to remove the cross-reacting antibodies. Lysozymes synthesized predominantly in reactive histiocytes rather than in resting, unstimulated phagocytes. It labels myeloid cells, histiocytes, granulocytes, macrophages, and monocytes. This antibody is helpful in the identification of myeloid or monocytic nature of acute leukemia.

Catalog Number	Volume
A20033	2 ml Ready-to-use
A00033	6 ml Ready-to-use
A00033.0025	25 ml Ready-to-use

**Myoglobin**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with human myoglobin. The antibody stains strongly with the skeletal and cardiac muscles. No non-specific staining with other tissues has been observed.

Catalog Number	Volume
A20066	2 ml Ready-to-use
A00066	6 ml Ready-to-use
A00066.0025	25 ml Ready-to-use

**p40 (DeltaNp63); Polyclonal (Ready-To-Use)**

IVD

Species: Rabbit  
 Clone: Polyclonal  
 Isotype: Rabbit IgG  
 Species Reactivity: Human.  
 Cellular Localization: Nuclear.  
 Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

Catalog Number	Volume
A00112-0002	2 ml
A00112-0007	7 ml
A00112-0025	25 ml

**PSA (Prostate Specific Antigen)**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 MW: 53 kD  
 Species Reactivity: Human

Specificity: The antigen used for immunization has been isolated from human seminal fluid. The antibody is well-suited for immunohistochemistry. The performance in ELISA has not been fully investigated. Primary and metastatic prostatic carcinomas show positive staining for PSA, while non-prostatic malignancies do not stain.

Catalog Number	Volume
A20035	2 ml Ready-to-use
A00035	6 ml Ready-to-use
A00035.0025	25 ml Ready-to-use

**S-100; Polyclonal (Ready-To-Use)**

IVD

Species: Rabbit  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: S-100 from ox brain was used for immunization. This antibody reacts strongly with human S100-A and B. Extensive testing shows that this antibody gives strictly specific S-100 labeling of cryostat as well as formalin-fixed, paraffin-embedded section of human tissue. This antibody labels glial cells in the brain and ependymal cells. Moreover, Schwann cells of the peripheral nervous system are positive. Among tumors of the human central and peripheral nervous system, a positive reaction is seen in schwannomas and ependymomas, as well as in different grades of astroglomas including glioblastomas. A large proportion of cells in human tumors originating from different salivary glands are stainable with anti-S-100. S-100 is present in almost all human benign and malignant melanocytic tumors of the skin and in metastases of human malignant melanomas.

Catalog Number	Volume
A00036-0002	2 ml
A00036-0007	7 ml
A00036-0025	25 ml

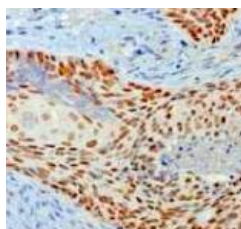
**Ubiquitin**

IVD

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody detects the presence of intracellular ubiquitinated filamentous inclusions in the periphery of senile plaques and neurofibrillary tangles in Alzheimer's disease and Lewy bodies in Parkinson's disease.

Catalog Number	Volume
A20038	2 ml Ready-to-use
A00038	6 ml Ready-to-use
A00038.0025	25 ml Ready-to-use



p40 (DeltaNp63);  
 Polyclonal (Ready-To-Use)

## Polyclonal Concentrates

### p40 (DeltaNp63); Polyclonal (Concentrate)

IVD

Species: Rabbit

Clone: Polyclonal

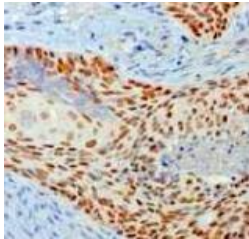
Isotype: Rabbit IgG

Species Reactivity: Human.

Cellular Localization: Nuclear.

Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00112-C	1 ml



p40 (DeltaNp63); Polyclonal (Concentrate)



# Histo-Line Laboratories

**Via G. di Vittorio 30,  
20090 Pantigliate (MI)  
ITALY**

## Contacts



Phone: +39 0255230061



Customer and Order Management: +39 0255230061 (N° Internal 0)



Accounting: +39 0255230061 (N° Internal 1)



Commercial: +39 0255230061 (N° Internal 2)



Technical Products: +39 0255230061 (N° Internal 3)



Instruments Technical: +39 0255230061 (N° Internal 4)



Fax Administration, Commercial, Technical Support: +39 0255213764

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## Web

[www.histoline.com](http://www.histoline.com)

## Social





# Histo-Line Laboratories

Viale G.di Vittorio, 30  
20090 Pantigliate (MI)  
ITALY

Tel. +39 0255230061

Fax +39 0255213764

<http://www.histoline.com>

email: [histoline@histoline.com](mailto:histoline@histoline.com)



Advancing Science & Medicine Through Histo-Cytology