



quartett

Product List 2020

VALID FROM JULY 2020

WE LIVE SERVICE

Certificates

quartett owns a production site that is certified according to

ISO 9001:2015

Quality management systems - Requirements

EN ISO 13485:2016

Medical devices - Quality management systems - Requirements for regulatory purposes

GMP Conformity

Our quality management guarantees products of highest quality!

Foreword to the quartett product list

quartett Immunodiagnostika, Biotechnologie + Kosmetik Vertriebs GmbH welcomes you as one of our new business partners as well as all of our previous loyal clients. You are now member of quartett's worldwide customers.

Founded as a family-run company in 1986, quartett ensures for more than 30 years consistent quality of products.

In the end 80's quartett offered radioimmunoassay and enzyme immunoassay kits from different manufacturers in the USA. In the beginning 90's the company changed its strategy from offering products for routine diagnostic to the increasing field of research and development. Setting up a production plant in 1997 supported this decision.

The company specialized its product profile in manufacturing and modification of synthetic peptides with HPLC purity > 95 % including protease inhibitors or peptides for antibody production.

Second expertise of quartett is the production of a variety of reagents for histology, cytology and immunohistochemistry including > 1000 antibodies and detection systems.

In 2016 we started working on our own line of mouse and rabbit monoclonal antibodies named „Q clones“ with excellent staining specificity and sensitivity.

All products are exclusively manufactured in Germany without outsourcing any production step. Nowadays, we expand into all other diagnostic and research fields and supply our customers in universities, government institutes, pharmaceutical and biotechnological companies, hospitals and private doctor offices.

But we are not only limited to provide our customers with consumable chemicals. Since quartett already offered cosmetic peptides, in 2011 we started working in the cosmetic field creating YOUmeDERM® care products.

We have set ourselves the task to provide the best quality solutions in all spheres of research. quartett owns a production site that is certified according to ISO 9001:2015 & EN ISO 13485:2016 and works in compliance with GMP conformity. Our quality management guarantees products of highest quality. Over the past decades we have steadily improved and enhanced our capabilities to satisfy your expectations.

Service and support of our valued customers are our daily businesses. A network of worldwide distributors guarantees global customer supply. We participate at international exhibitions, such as MedLab in Dubai, Medica in Germany and various congresses for pathologists. Furthermore, we are represented by distributors at exhibitions we are not able to attend.

After so many years it is again time to say thanks to each of our clients and business partners for trusting in us. Without them we were not as successful as we are and we are proud to have each of you in our quartett family.

Welcome to quartett! Be part of us!

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Explanations

AP	Alkaline Phosphatase
Bov	Bovine
Ch	Chicken
Ch	Chimpanzee
Ct	Cat
Conc.	Concentrate
Cw	Cow
Dg	Dog
Du	Duck
EIA	Enzymimmunoassay
ELISA	Enzyme-linked Immunosorbent Assay
FACS	Fluorescence-activated Cell Sorting
FISH	Fluorescence In-situ Hybridization
Fs	Fish
Gp	Guinea Pig
Gt	Goat
HIER	Heat Induced Epitope Retrieval
Hm	Hamster
Hs	Horse
HRP	Horseradish Peroxidase
Hu	Human
IC or ICC	Immunocytochemistry
IF	Immunofluorescence
IH	Immunohistology
IHC(p,f)	Immunohistochemistry (Paraffin, Frozen)
IP	Immunoprecipitation
ISH	In-Situ Hybridization
LSAB	Labeled Streptavidin / Biotin method
mM	Reacts w. most mammals
Mk	Monkey
Ms	Mouse
Ov	Ovine
PIER	Proteolytic Induced Epitope Retrieval
Pg	Pig
Rb	Rabbit
RIA	Radioimmunoassay
Rt	Rat
RTU	Ready-to-use
Sam	Salamander
Sh	Sheep
WB	Western Blot

1. Antibodies

1.1 Monoclonal quartett Antibodies



The quartett antibody PD-L1 (QR001) ushered in a new era: the start of our own clone series 'Q clones'.

Since then we have specialized in the production of our own monoclonal mouse and rabbit antibodies. They are characterized by high sensitivity and specificity.

Please contact our service team for further product information or visit our homepage www.quartett.com.

Rabbit Monoclonals

Product name	Clone	Host	Class	Cat. No.	Format
PD-L1	QR001	Rabbit	IVD	C-P001-01	100 µl Concentrate
PD-L1	QR001	Rabbit	IVD	C-P001-05	500 µl Concentrate
PD-L1	QR001	Rabbit	IVD	C-P001-10	1 ml Concentrate
PD-L1	QR001	Rabbit	IVD	P-P001-10	1 ml RTU
PD-L1	QR001	Rabbit	IVD	P-P001-30	3 ml RTU
PD-L1	QR001	Rabbit	IVD	P-P001-70	7 ml RTU
PD-1	QR2	Rabbit	IVD	1-PR294-02	100 µl Concentrate
PD-1	QR2	Rabbit	IVD	1-PR294-05	500 µl Concentrate
PD-1	QR2	Rabbit	IVD	1-PR294-07	1 ml Concentrate
PD-1	QR2	Rabbit	IVD	2-PR294-07	1 ml RTU
PD-1	QR2	Rabbit	IVD	2-PR294-10	3 ml RTU
PD-1	QR2	Rabbit	IVD	2-PR294-13	7 ml RTU
Her2/NEW	QR3	Rabbit	IVD	1-HE148-02	100 µl Concentrate
Her2/NEW	QR3	Rabbit	IVD	1-HE148-05	500 µl Concentrate
Her2/NEW	QR3	Rabbit	IVD	1-HE148-07	1 ml Concentrate
Her2/NEW	QR3	Rabbit	IVD	2-HE148-07	1 ml RTU
Her2/NEW	QR3	Rabbit	IVD	2-HE148-10	3 ml RTU
Her2/NEW	QR3	Rabbit	IVD	2-HE148-13	7 ml RTU
CD3e	QR4	Rabbit	IVD	1-CD435-02	100 µl Concentrate
CD3e	QR4	Rabbit	IVD	1-CD435-05	500 µl Concentrate
CD3e	QR4	Rabbit	IVD	1-CD435-07	1 ml Concentrate
CD3e	QR4	Rabbit	IVD	2-CD435-07	1 ml RTU
CD3e	QR4	Rabbit	IVD	2-CD435-10	3 ml RTU
CD3e	QR4	Rabbit	IVD	2-CD435-13	7 ml RTU
PRAME	NEW QR005	Rabbit	RUO	C-P003-01	100 µl Concentrate
PRAME	NEW QR005	Rabbit	RUO	C-P003-05	500 µl Concentrate
PRAME	NEW QR005	Rabbit	RUO	C-P003-10	1 ml Concentrate
PRAME	NEW QR005	Rabbit	RUO	P-P003-10	1 ml RTU
PRAME	NEW QR005	Rabbit	RUO	P-P003-30	3 ml RTU
PRAME	NEW QR005	Rabbit	RUO	P-P003-70	7 ml RTU
SOX10	NEW QR006	Rabbit	IVD	C-S001-01	100 µl Concentrate
SOX10	NEW QR006	Rabbit	IVD	C-S001-05	500 µl Concentrate
SOX10	NEW QR006	Rabbit	IVD	C-S001-10	1 ml Concentrate
SOX10	NEW QR006	Rabbit	IVD	P-S001-10	1 ml RTU
SOX10	NEW QR006	Rabbit	IVD	P-S001-30	3 ml RTU
SOX10	NEW QR006	Rabbit	IVD	P-S001-70	7 ml RTU

Product name		Clone	Host	Class	Cat. No.	Format
p63	NEW	QR007	Rabbit	IVD	C-P004-01	100 µl Concentrate
p63	NEW	QR007	Rabbit	IVD	C-P004-05	500 µl Concentrate
p63	NEW	QR007	Rabbit	IVD	C-P004-10	1 ml Concentrate
p63	NEW	QR007	Rabbit	IVD	P-P004-10	1 ml RTU
p63	NEW	QR007	Rabbit	IVD	P-P004-30	3 ml RTU
p63	NEW	QR007	Rabbit	IVD	P-P004-70	7 ml RTU

Mouse Monoclonals

Product name		Clone	Host	Class	Cat. No.	Format
Complement C4d		QM1	Mouse	RUO	1-CO218-02	100 µl Concentrate
Complement C4d		QM1	Mouse	RUO	1-CO218-05	500 µl Concentrate
Complement C4d		QM1	Mouse	RUO	1-CO218-07	1 ml Concentrate
Complement C4d		QM1	Mouse	RUO	2-CO218-07	1 ml RTU
Complement C4d		QM1	Mouse	RUO	2-CO218-10	3 ml RTU
Complement C4d		QM1	Mouse	RUO	2-CO218-13	7 ml RTU
Complement C4d FITC		QM1	Mouse	RUO	3-CO218-08	2 ml Concentrate
Complement C4d FITC		QM1	Mouse	RUO	3-CO218-10	3 ml RTU
Complement C4d FITC		QM1	Mouse	RUO	3-CO218-13	7 ml RTU
IDH1 R132H	NEW	QM002	Mouse	RUO	C-I001-01	100 µl Concentrate
IDH1 R132H	NEW	QM002	Mouse	RUO	C-I001-05	500 µl Concentrate
IDH1 R132H	NEW	QM002	Mouse	RUO	C-I001-10	1 ml Concentrate
IDH1 R132H	NEW	QM002	Mouse	RUO	P-I001-10	1 ml RTU
IDH1 R132H	NEW	QM002	Mouse	RUO	P-I001-30	3 ml RTU
IDH1 R132H	NEW	QM002	Mouse	RUO	P-I001-70	7 ml RTU

1.2 Antibodies for FFPE and Frozen Sections

quartett offers more than 1000 antibodies for formalin fixed paraffin embedded and frozen sections. Almost all antibodies are available in the same formats.

If you want to place an order, please follow our instructions for catalog number writing using the article master shown in the table.

Example:

Article Master: ME026; Product Name: Melanoma (HMB-45)

- ▶ **100 µl concentrate:** 1-ME026-02
- ▶ **1 ml concentrate:** 1-ME026-07
- ▶ **3 ml ready-to-use:** 2-ME026-10
- ▶ **7 ml ready-to-use:** 2-ME026-13

Just ask our customer service team for the correct order number, if you have difficulties or if you need another size than shown here.

Cat. No.	Product Name	Host	Clone	Application	Reactivity
AC014	Acetylcholinesterase/ACHE	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AC032	Actin bundles	Ms	AE-7	IHC(p), IHC(f)	Hu
AC038	Actin, muscle specific	Ms	HHF35	IHC(p), IHC(f)	Hu
AC039	Actin, smooth muscle	Ms	1A4	IHC(p), IHC(f)	Hu
AC040	Actin, smooth muscle	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AC046	Activating transcription factor 4/ATF4	Rb	Polyclonal	IHC(p*), IHC(f), IF, WB	Hu, Ms, Rt, Gp
AC052	Activator of S phase kinase/DBF4A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AD026	Adenovirus	Ms		IHC(p)	Hu
AD031	Adenylate cyclase 3/ADCY3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AD043	Adhesion related kinase/AXL	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rb, Rt
AD050	Adipophilin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AD076	Adrenocorticotrophic hormone/ACTH	Ms	2F6	IHC(p), WB	Hu, Ms, Rt
AD080	Adrenocorticotrophic hormone/ACTH	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AG001	Aggrecan	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AL005	Albumin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Hu, Ms
AL007	Aldehyde dehydrogenase 1A1/ALDH1A1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AL026	Alkaline phosphatase	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AL027	Alkaline phosphatase	Ms	V17.1	IHC(f), ELISA	Hu
AL035	Alpha 1 antichymotrypsin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AL037	Alpha 1 antitrypsin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AL040	Alpha fetoprotein/AFP	Ms	C2	IHC(p), IHC(f)	Hu
AL041	Alpha fetoprotein/AFP	Ms	C3	IHC(p), IHC(f)	Hu, Dg, Pg
AL042	Alpha fetoprotein/AFP	Ms	D10	IHC(p), IHC(f), ELISA, WB, ICC	Hu
AL043	Alpha fetoprotein/AFP	Ms	MBS-12	IHC(f), ELISA	Hu, Ms
AL045	Alpha fetoprotein/AFP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AL047	Alpha fetoprotein/AFP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AL052	Alpha methylacyl CoA Racemase/AMACR	Rb	13H4	IHC(p), IHC(f)	Hu
AM019	Amphiregulin	Rb	Polyclonal	IHC(p), IHC(f)	Hu, Ms
AM027	Amylase alpha 2A/AMY2A	Rb	Polyclonal	IHC(p*), ELISA, WB	Hu, Ms, Rb, Rt
AM055	Amyloid beta	Ms	BAM01/6F3D	IHC(p)	Hu
AM061	Amyloid P	Rb	EP1018Y	IHC(p), IHC(f)	Hu

Errors and misprints excepted. If you need help with the catalog number, just ask our customer service team.

* reported as working on; ** only special packing sizes available; If you want to place an order, please follow our instructions on page 9.

Cat. No.	Product Name	Host	Clone	Application	Reactivity
AN006	Anaplastic lymphoma kinase/ALK	Ms	ALK-1	IHC(p), IHC(f)	Hu
AN007	Anaplastic lymphoma kinase/ALK	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AN010	Androgen receptor	Ms	AR441	IHC(p), IHC(f)	Hu
AN011	Androgen receptor	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AN029	Angiotensin I	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Ms, Rt
AN030	Angiotensin I converting enzyme 1/ACE1/CD143	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC, FACS	Hu, Ms, Rt
AN033	Angiotensin II	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AN099	Annexin A1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AN106	Annexin A7	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AN110	Annexin A10	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AN112	Anterior gradient 2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AN125	Anaplastic lymphoma kinase/ALK	Ms	1A4	IHC(p), IHC(f)	Hu
AP017	Apolipoprotein D/ApoD	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AP024	Apolipoprotein J/ApoJ	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AR007	ARG-1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AS002	Asparaginase like protein 1	Ms	4D11		Hu
AS003	Asparaginase like protein 1	Ms	7B6		Hu
AT002	Ataxia telangiectasia mutated/ATM	Rb	Polyclonal	IHC(p), IHC(f)	Hu
AU001	Aurora A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
AU004	Aurora B	Rb	Polyclonal	IHC(p), IHC(f)	Hu
B0003	B cell attracting chemokine 1/CXCL13	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
B0008	B cell lymphoma 2/Bcl2	Ms	124	IHC(p), IHC(f)	Hu
B0009	B cell lymphoma 2/Bcl2	Rb	E17	IHC(p), IHC(f)	Hu
B0010	B cell lymphoma 2/Bcl2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
B0015	B cell lymphoma 6/Bcl6	Ms	G1191E/A8	IHC(p), IHC(f)	Hu
B0019	B cell lymphoma 11a/Bcl11a	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
B0023	B cell specific octamer binding protein 1/BOB.1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
B0033	B-Raf proto oncogene serine threonine protein kinase/B-Raf	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb
B0034	B cell lymphoma 6/Bcl6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
B0035	B cell lymphoma 2/Bcl2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
BA018	Basal membrane component		155 C1		
BA029	Bax interacting factor 1/Bif	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
BA030	Bax interacting factor 1/Bif	Rb	Polyclonal	IHC(p), IHC(f), WB	Hu, Ms, Rt
BC001	Bcl2 adenovirus E1B 19kD interacting protein 1/BNIP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
BC005	Bcl2 antagonist of cell death/Bad	Rb	Polyclonal	IHC(p), IHC(f)	Hu
BC024	Bcl associated X protein/Bax	Ms	2D2	IHC(p), IHC(f), WB	Hu
BC028	Bcl2 adenovirus E1B 19kD interacting protein 1/BNIP1	Rb	Polyclonal	IHC(p), IHC(f), ELISA, WB, IF	Hu, Ms, Rt
BE002	Beclin 1/BECN1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
BI005	Bile salt export pump/BSEP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
BL002	Blood group 8, LewisY	Ms	F3	IHC(p), IHC(f)	Hu
BL003	Blood group A antigen	Ms	3-3A	IHC(p), IHC(f), ELISA	Hu
BL004	Blood group A antigen	Ms	HE-10	IHC(p), IHC(f)	Hu
BL005	Blood group A antigen	Ms	HE-193	IHC(p), IHC(f)	Hu
BL006	Blood group antigen H-type 1,2, Le-y	Ms	19-OLE	IHC(p), IHC(f), ELISA, ICC	Hu
BL007	Blood group antigen H-type 2, Le-y	Ms	A51-B/A6	IHC(p), IHC(f), FACS	Hu
BL008	Blood group antigen H-type 2, O	Ms	A63-D/B12	IHC(p), IHC(f), ELISA	Hu
BL009	Blood group antigen H-type 2, O, Le-y	Ms	A46-B/B10	IHC(p)	Hu
BL010	Blood group antigen H-type 5&6	Ms	HE-182		Hu
BL011	Blood group B antigen	Ms	HEB-29	IHC(p), IHC(f), FACS, IF, Agglutination	Hu
BL012	Blood group Lewis a	Ms	7LE	IHC(p), WB, ELISA, ICC, IF	Hu, Ms

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Cat. No.	Product Name	Host	Clone	Application	Reactivity
BL013	Blood group Lewis b	Ms	2-25LE	IHC(p), WB, ELISA, ICC, IF	Hu
BO022	Borrelia burgdorferi	Rb	Polyclonal	IHC(p), IHC(f), WB, ELISA	B. burgdorferi
BR036	Breast cancer 2 early onset/BRCA2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA,	Hu, Ms, Rt
BR038	Breast cancer antigen 225/BCA-225	Ms	Cu-18	IHC(p), IHC(f)	Hu
BR057	Bromodeoxyuridine/BrdU	Ms	MoBu-1	IHC(p), ICC, FACS	All species
BR069	Brachyury	Rb	Polyclonal	IHC(p), IHC(f)	Hu
C0001	C reactive protein/CRP	Sh	Polyclonal	IHC(f), ELISA	Hu
C0002	C reactive protein/CRP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
C0012	C type lectin domain family 4 member C/CLEC4C/CD303	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms
C0014	C type lectin domain family 4 member K/Langerin	Ms	12D6	IHC(p), IHC(f)	Hu
C0015	C type lectin domain family 4 member K/Langerin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
C0023	C type lectin domain family 13 member B/LY75/CD205	Rb	Polyclonal	IHC(p), IHC(f)	Hu
C0029	c-Myc	Ms	9E10.3	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu
C0032	c-Myc	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA003	E-Cadherin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA006	Cadherin 3/Placental cadherin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CA011	Cadherin 6/Kidney cadherin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA019	Cadherin 17/Liver-intestine cadherin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA032	Calcitonin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA033	Calcitonin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA089	Caldesmon	Rb	E89	IHC(p), IHC(f)	Hu
CA090	Caldesmon	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA093	Calmodulin binding transcription activator 1/CAMTA1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
CA095	Calpain 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CA097	Calpain 3	Rb	Polyclonal	IHC(p*), IHC(f), WB, FACS	Hu
CA101	Calponin	Ms	CALP	IHC(p), IHC(f)	Hu
CA103	Calponin 1/CNN1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA106	Calretinin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA118	Cancer antigen 19-9/CA-19-9	Ms	121SLE	IHC(p), IHC(f)	Hu
CA119	Cancer antigen 125/CA-125	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA120	Cancer antigen 125/CA-125	Ms	OC125	IHC(p), IHC(f)	Hu
CA123	Cancer/testis antigen 1B	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA151	Carbonic anhydrase 9	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA165	Carcinoembryonic antigen related cell adhesion molecule 1/CEACAM1/CD66a	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CA174	Carcinoembryonic antigen/CD66e	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA175	Carcinoembryonic antigen/CD66e	Ms	CEA31	IHC(p)	Hu
CA176	Carcinoembryonic antigen/CD66e	Ms	A1	IHC(f)	Hu
CA177	Carcinoembryonic antigen/CD66e	Ms	A42-B/A2		
CA178	Carcinoembryonic antigen/CD66e	Ms	B1	IHC(f)	Hu
CA179	Carcinoembryonic antigen/CD66e	Ms	CB30	IHC(p), IHC(f)	Hu
CA180	Carcinoembryonic antigen/CD66e	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA212	Casein kinase 2 interacting protein 1/CKIP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CA220	Caspase 3 (Active)	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CA222	Caspase 3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CA262	Catenin beta/CTNNB	Ms	14	IHC(p), IHC(f)	Hu
CA263	Catenin beta/CTNNB	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA271	Cathepsin D	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA275	Cathepsin K	Ms	3F9	IHC(p), IHC(f)	Hu
CA284	Caudal type homeo box 2/CDX2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA286	Caveolin 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CA288	Caveolin 3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt

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Cat. No.	Product Name	Host	Clone	Application	Reactivity
CA289	Catenin beta/CTNNB	Ms	β-Catenin-1	IHC(p), IHC(f)	Hu
CD001	CD1	Ms	66IIC7	IHC(f), FACS	Hu
CD002	CD1a	Ms	MTB1	IHC(p), IHC(f)	Hu
CD003	CD1a	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD006	CD1a	Ms	CBT6	IHC(f), ELISA	Hu, Ms
CD007	CD1a	Ms	O10	IHC(p), IHC(f)	Hu
CD008	CD1b	Ms	100-1A5	IHC(f), FACS	Hu
CD009	CD1b	Ms	RIV 12	IHC(f), FACS, ELISA	Hu
CD010	CD2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD011	CD2	Ms	HuLy-m1	IHC(f), FACS, WB	Hu
CD012	CD3	Ms	12F6	IHC(p), IHC(f)	Hu
CD013	CD3	Rt	12	IHC(p), IHC(f)	Hu, Ms, Rt
CD014	CD3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD015	CD3	Ms	B-B12	FACS	Hu
CD016	CD3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD019	CD3	Ms	CRIS-7	IHC(p), IHC(f), WB, ELISA, ICC, FACS	Hu, Ms, Rt
CD020	CD3	Ms	PS1	IHC(p), IHC(f)	Hu
CD021	CD3	Ms	RIV9	IHC(f), WB, FACS	Hu, Ms, Rt
CD022	CD4	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
CD024	CD4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD025	CD4	Ms	EDU-2	ICC, IF, FACS	Hu
CD026	CD4	Ms	JOU4B7F4	IHC(f), FACS	Hu
CD027	CD4 T Cell	Ms	1F6	IHC(p), IHC(f)	Hu
CD028	CD5	Ms	4C7	IHC(p), IHC(f)	Hu
CD029	CD5	Ms	B-B8	IHC(f), FACS	Hu
CD030	CD5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD031	CD5	Ms	CRIS-1	IHC(f), FACS, WB	Hu
CD032	CD5	Ms	NKI-CD5	FACS	Hu
CD035	CD6	Ms	SPV-L14	IHC(p), IHC(f), FACS	Hu
CD036	CD7	Ms	124-1D1	IHC(f), FACS	Hu
CD037	CD7	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD038	CD7	Ms	HuLy-m2	IF, FACS	Hu
CD039	CD8	Ms	C8/144B	IHC(p), IHC(f)	Hu
CD040	CD8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD044	CD8	Ms	H030-1.2	IF, ICC	Hu
CD045	CD8	Ms	RIV 11	IHC(f), ELISA, FACS, ICC	Hu
CD047	CD8a	Ms	143-44	IHC(p), IHC(f), ELISA, FACS	Hu
CD049	CD8a	Rt	IBL-3/25	IHC(f), FACS	Ms
CD052	CD10/CALLA	Ms	56C6	IHC(p), IHC(f)	Hu
CD053	CD10/CALLA	Ms	CB-CALLA	IHC(f), FACS	Hu
CD054	CD10/CALLA	Ms	FR4D11	IHC(f), FACS	Hu
CD055	CD10/CALLA	Ms	ICO-124	IHC(f), FACS	Hu
CD056	CD10/CALLA	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rt
CD057	CD10/CALLA	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD058	CD11a/Integrin alpha L	Ms	DF1524	IHC(f), FACS, ICC	Hu
CD061	CD11b/Integrin alpha M	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD062	CD11c/Integrin alpha X	Ms		IHC(p)	Hu
CD063	CD11c/Integrin alpha X	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD064	CD13	Ms	B-F10	IHC(f), FACS	Hu
CD065	CD13	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD066	CD13	Ms	38C12	IHC(p*), IHC(f)	Hu

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CD067	CD14	Ms	B-A8	FACS	Hu
CD068	CD14	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD069	CD15	Ms	MMA	IHC(p), IHC(f)	Hu
CD070	CD15	Ms	BRA4F1	IHC(p), IHC(f), ELISA, FACS	Hu
CD071	CD15	Ms	FR4A5	IHC(f), FACS	Hu
CD072	CD15 Granulocytes	Ms	TÜ9	IHC(p), IHC(f)	Hu
CD073	CD15	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD074	CD16	Ms	CB-16	IHC(f)	Hu
CD075	CD16	Ms	H0804D11. D8		Hu
CD076	CD16	Ms	ICO 116	FACS	Hu
CD077	CD16/Fc-Receptor	Ms	2H7	IHC(p), IHC(f)	Hu
CD078	CD17	Ms	H018.3G6- F5	IF, FACS	Hu
CD079	CD18/Integrin beta 2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
CD080	CD18/Integrin beta 2	Ms	68-5A5	IHC(f), FACS	Hu
CD081	CD19	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD083	CD19	Ms	CB19	IHC(f), FACS	Hu
CD084	CD19	Ms	FR10A7		Hu
CD085	CD20	Ms	L26	IHC(p), IHC(f)	Hu
CD086	CD20	Ms	B9E9	IHC(f), ELISA, FACS	Hu, Ms, Rt
CD088	CD20	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD089	CD20.1	Ms	109-3C2		Hu
CD090	CD20.4	Ms	93-1B3	IHC(f)	Hu
CD091	CD20cy B Cell	Ms	BLA36	IHC(p), IHC(f)	Hu, Ct, Dg
CD093	CD21	Ms	2G9	IHC(p), IHC(f)	Hu
CD094	CD21	Ms	B-A10		Hu
CD095	CD21	Ms	B-G11		Hu
CD096	CD21	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD097	CD21	Ms	FR5A10	IHC(f), FACS	Hu
CD099	CD22	Ms	FR10B4	IHC(p), IHC(f), FACS	Hu
CD100	CD22	Ms	ICO 91		Hu
CD101	CD22	Ms	Myg 13	WB, FACS	Hu
CD102	CD23	Ms	1B12	IHC(p), IHC(f)	Hu
CD103	CD23	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD107	CD24	Ms	SN3	IHC(f), WB	Hu
CD108	CD25	Ms	TÜ69	IHC(p), IHC(f), WB	Hu
CD109	CD25	Ms	4C9	IHC(p), IHC(f)	Hu
CD110	CD25	Ms	143-13	IHC(f), FACS, ICC	Hu
CD111	CD25	Ms	B-E 1		Hu
CD112	CD25	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD113	CD25	Ms	ICO 105	FACS	Hu
CD114	CD26	Ms	202-36	WB, ICC, IF, FACS	Hu
CD116	CD27	Ms	203-6	IHC(f), FACS, ICC	Hu
CD118	CD28	Ms	204-12	IHC(f), FACS	Hu
CD119	CD28	Ms	B-A13		
CD121	CD29/Integrin beta 1	Ms	Moon-4	IHC(f)	Ms
CD123	CD30	Ms	Ber-H2	IHC(p), IHC(f)	Hu
CD124	CD30	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD126	CD31/PECAM1	Ms	JC70	IHC(p), IHC(f)	Hu
CD127	CD31/PECAM1	Ms	158-2B8	IHC(f), FACS	Hu
CD128	CD31/PECAM1	Ms	FS12	IHC(p), IHC(f), ELISA, FACS	Hu
CD130	CD31/PECAM1	Rb	Polyclonal	IHC(p), IHC(f)	Hu

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Cat. No.	Product Name	Host	Clone	Application	Reactivity
CD131	CD32	Ms	7.30 (B340)	IHC(f)	Hu
CD132	CD32	Ms	8.26	FACS	Hu
CD133	CD32	Ms	8.7	FACS	Hu
CD136	CD33	Ms	PWS44	IHC(p)	Hu
CD141	CD34	Ms	QBEnd/10	IHC(p), IHC(f)	Hu
CD142	CD34	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD144	CD34	Ms	ICO 115	IHC(p), IHC(f), FACS	Hu
CD145	CD35	Ms	RLB25	IHC(p), IHC(f)	Hu
CD146	CD36	Ms	185-1G2	IHC(f), FACS, ICC, IF	Hu
CD147	CD36	Ms	1A7 (B325)	IHC(f), FACS, ICC, IF	Hu
CD148	CD36	Ms	1E8	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu
CD150	CD37	Ms	IPO-24	IHC(p), IHC(f), ELISA	Hu
CD151	CD38	Ms	AT-1 (B307)	IHC(f), FACS, ICC, IF	Hu
CD152	CD38	Ms	AT-2		Hu
CD154	CD38	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD155	CD38	Ms	FS02	IHC(f), FACS	Hu
CD156	CD38 Plasma Cell	Ms	38C	IHC(p), IHC(f), WB	Hu
CD157	CD40	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD158	CD41/Integrin alpha 2b	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD159	CD41a	Ms	96-2C1	FACS	Hu
CD160	CD43	Ms	MT1	IHC(p), IHC(f)	Hu
CD161	CD43	Ms	84-3C1	IHC(p), IHC(f), FACS, WB	Hu
CD162	CD43	Ms	Bra7G	IHC(p), IHC(f)	Hu
CD164	CD43	Ms	DFT1	IHC(p), IHC(f), FACS, WB	Hu
CD165	CD44	Ms	156-3C11	IHC(p), IHC(p*), IHC(f), WB, FACS, ICC, IF	Hu
CD166	CD44	Ms	33-3B3 (B484)	IHC(f), FACS	Hu
CD167	CD44	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD170	CD44	Ms	DF1485	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu
CD175	CD44 (156-3C11) + p53 (EP9); CK20 (Ks20.8)	Rb + Ms, Ms	CD44 (156-3C11) + p53 (EP9); Cytokeratin 20 (Ks20.8)	IHC(p)	Hu
CD176	CD45	Ms	135-4C5	IHC(p), IHC(f), WB, ELISA, IF, FACS	Hu
CD177	CD45	Ms	136-4B5	IHC(p), IHC(f)	Hu
CD178	CD45	Ms	2B11 & PD7/26	IHC(p), IHC(f)	Hu
CD179	CD45	Ms	190-2F2.5	IHC(f), FACS	Hu
CD180	CD45	Ms	Bra55 (WS IV)	IHC(p), FACS, ICC, IF	Hu
CD181	CD45	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD183	CD45	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Rt
CD185	CD45	Rt	IBL-5/25	IHC(f), FACS	Ms
CD186	CD45R	Ms	MB1	IHC(p), IHC(f)	Hu
CD187	CD45RA	Ms	111-1C5	IHC(p), FACS	Hu
CD188	CD45RA	Ms	158-4D3	IHC(p), IHC(f), FACS, ICC, IF	Hu
CD189	CD45RA	Ms	DFB1 (B315)	IHC(p), IHC(f)	Hu
CD190	CD45RB	Ms	Bra11G	IHC(p), IHC(f), FACS	Hu
CD191	CD45RO	Ms	UCHL-1	IHC(p), IHC(f)	Hu
CD193	CD46	Ms	197-2B1	IHC(f), FACS	Hu

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Cat. No.	Product Name	Host	Clone	Application	Reactivity
CD196	CD46	Ms	E4.3	IHC(f), FACS	Hu
CD198	CD48	Ms	156-4H9	FACS	Hu
CD199	CD48	Ms	5-4.8 (B333)	IHC(f), WB, FACS, ICC, IF	Hu
CD200	CD48	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD201	CD49a/Integrin alpha 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD207	CD50/ICAM3	Ms	101-1D2	IHC(p), IHC(f), WB, ICC	Hu
CD208	CD50/ICAM3	Ms	186-2G9	FACS	Hu
CD209	CD50/ICAM3	Ms	ICO 60	FACS	Hu
CD211	CD51/Integrin alpha V	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rt
CD213	CD53	Ms	161-2	FACS	Hu
CD214	CD53.1	Ms	63-5A3	FACS, ICC, IF	Hu
CD215	CD54/ICAM1	Ms	F4-31C2	FACS	Hu
CD216	CD54/ICAM1	Ms	W-CAM-1	IHC(p), IHC(f), WB, ELISA, ICC, FACS	Hu
CD225	CD55	Ms	143-30	IHC(p), IHC(f), FACS	Hu
CD227	CD55	Ms	F4-29D9	FACS	Hu
CD228	CD56	Ms	123A8 (B332)	WB, FACS, ICC, IF	Hu
CD229	CD56	Ms	123C3.D5	IHC(p), IHC(f)	Hu
CD232	CD57	Ms	NK-1	IHC(p), IHC(f)	Hu
CD234	CD57 Natural Killer	Ms	F45	IHC(p), IHC(f)	Hu
CD235	CD59	Ms	193-27	FACS	Hu
CD236	CD59	Ms	Bra10G	IHC(p*), IHC(f), FACS	Hu
CD238	CD61/Integrin beta 3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD239	CD61/Integrin beta 3	Ms	2f2	IHC(p), IHC(f)	Hu
CD240	CD61/Integrin beta 3	Ms	25E11	FACS, ICC, IF	Hu
CD241	CD63	Ms	NKI/C3	IHC(p), IHC(f)	Hu
CD242	CD63	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD243	CD63	Ms	NKI/ black-13		
CD244	CD63	Ms	NKI/sax		
CD245	CD64/IGFR1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD246	CD68	Ms	Kp-1	IHC(p), IHC(f), WB	Hu
CD247	CD68	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD249	CD69	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD250	CD71	Ms	66-I-G10 (B331)	IHC(f), WB, FACS, ICC, IF	Hu
CD251	CD71	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD253	CD71	Ms	DF1513	IHC(f), WB, ICC, IF	Hu
CD255	CD73	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
CD256	CD74	Ms	LN2	IHC(p)	Hu
CD257	CD74	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD258	CD75/Sialyltransferase 1	Ms	LN1	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu
CD261	CD79a	Ms	JCB117	IHC(p), IHC(f)	Hu
CD262	CD79a	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD263	CD79a B Cell	Ms	HM47/A9	IHC(p), IHC(f)	Hu, Ms, Rt
CD264	CD80	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
CD266	CD81	Ms	1.3.3.22	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu
CD267	CD82/KA11	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD270	CD84	Ms	152-1D5	IHC(f), FACS, ICC, IF	Hu
CD271	CD84	Ms	153-4D9	FACS	Hu

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CD276	CD90/Thy1	Ms	AF-9	IHC(f), ELISA, FACS	Hu
CD277	CD90/Thy1	Rt	IBL-1	IHC(f), FACS, ICC, IF	Ms
CD278	CD90/Thy1	Rt	IBL-6/13	WB, FACS	Ms
CD279	CD90/Thy1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD283	CD95	Ms	B-R18	FACS	Hu
CD285	CD95	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD286	CD95	Ms	ICO 160	IHC(f), FACS	Hu
CD289	CD98	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF	Hu, Ms, Rt
CD290	CD98	Ms	IPO-T10	FACS, ICC, IF	Hu
CD292	CD99	Ms	H036-1.1	IHC(p), IHC(f)	Hu
CD293	CD99	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD294	CD100	Ms	133-1G6	FACS	Hu
CD297	CD103/Integrin alpha E	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD298	CD103/Integrin alpha E	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD300	CD105/Endoglin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD303	CD106/VCAM-1	Ms	B-K9	IHC(f), FACS, ICC	Hu
CD304	CD106/VCAM-1	Ms	1.4C3	IHC(p), IHC(f)	Hu
CD313	CD117 c-Kit	Ms	K45	IHC(p), IHC(f)	Hu
CD314	CD117/c-kit	Rb	YR145	IHC(p), IHC(f)	Hu
CD316	CD117/c-kit	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD320	CD123	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu
CD325	CD133	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD328	CD137	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms
CD329	CD138/Syndecan-1	Ms	M115	IHC(p), IHC(f), WB	Hu
CD330	CD138/Syndecan-1	Ms	B-A38	IHC(p), IHC(f)	Hu
CD331	CD138/Syndecan-1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD332	CD141/Thrombomodulin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD334	CD143 Angiotensin Converting Enzyme	Ms	2E2	IHC(p), IHC(f)	Hu, Rt, Ms, Rb, Bov
CD335	CD146/MUC18	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD336	CD147	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD337	CD147	Ms	CB43	IHC(f)	Hu
CD353	CD163	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD354	CD163	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rt
CD357	CD168	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, FACS	Hu, Ms, Rt
CD359	CD169	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD361	CD171/L1CAM	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD363	CD174	Ms	A70-A/A9	IHC(p), IHC(f)	Hu
CD364	CD174	Ms	A70-C/C8	IHC(p), IHC(f)	Hu
CD365	CD176	Ms	A63-C/A9	IHC(p), IHC(f), ELISA	Hu
CD366	CD176	Ms	A68-B/A11	IHC(p), IHC(f), ELISA	Hu
CD367	CD176	Ms	A68-E/A2 (B380)	IHC(p), IHC(f)	Hu
CD368	CD176	Ms	A68-E/E3	ELISA	Hu
CD369	CD176	Ms	A78-G/A7	IHC(p), IHC(f), ICC, IF	Hu, Rt
CD370	CD176	Ms	A84-A/F10 (B378)	IHC(p), IHC(f)	Hu
CD376	CD184	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CD383	CD200	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD387	CD221/IGF1R	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CD388	CD223/LAG3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD396	CD248/TEM1	Rb	Polyclonal	IHC(p), IHC(f)	Hu

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CD416	CD336	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu
CD417	CD337	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Rt
CD422	Cdk inhibitor p21 binding protein/BCCIP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
CD429	CD3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD431	CD7	Ms	CBC.37	IHC(f)	Hu
CD432	CD10/CALLA	Ms		IHC(p)	
CD433	CD31/PECAM1	Rb	Polyclonal	IHC(p*), IHC(f)	Hu, Ms, Rt
CD434	CD35	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CD438	CD5	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CD439	CD79a	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CE009	Cell cycle dependent antigen	Ms	A69-D/H7	IHC(p), IHC(f)	Hu
CE049	Cellular oncogene fos/c fos	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Ms, Rt
CE052	Cellular retinoic acid binding protein 2/CRABP2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CH062	Chemokine CXC motif ligand 15/CXCL15	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Ms
CH114	Chondroitin sulfate	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
CH128	Chromogranin A	Ms	LK2H10	IHC(p), IHC(f)	Hu
CH129	Chromogranin A	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CH130	Chromogranin B	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CI006	Citrate synthetase	Ms	8D3-G4	IHC(p), IHC(f), WB, ELISA	Hu
CI007	Citrulline	Rb	Polyclonal	IHC(f), ELISA	
CL013	Claudin 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CL015	Claudin 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CL017	Claudin 5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CL020	Claudin 8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CL027	Clonab® IgG FITC	Gt		IF,FACS	
CL028	Clonab® All B cells (with except of plasma cells)	Ms	MB2	IHC(p), IHC(f)	Hu
CL031	Clonab® CD45RC Mature, inactivated T and B cells	Ms	MT2	IHC(p), IHC(f)	Hu
CL034	Claudin 7	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CL035	Claudin 3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CN001	CNPase	Ms	11-5B	IHC(p), IHC(f),IF,WB,ELISA	Hu, Cw, Sh, Gt, Pg, Ct, Dg, Rb, Rt, Ms
CO004	Coagulation factor XIIIa	Ms	AC-1A1	IHC(p), IHC(f)	Hu
CO006	Coagulation factor VIII	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CO008	Coagulation factor VIII related antigen	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CO010	Coagulation factor XIIIa	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CO067	Collagen type I	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CO068	Collagen type I/COL1A1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CO073	Collagen type II	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt, Pg
CO079	Collagen type III (C-terminal)	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CO085	Collagen type IV	Ms	CIV22	IHC(p), IHC(f)	Hu
CO089	Collagen type IV alpha 3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CO099	Collagen type X Biotin	Ms	X53	IHC(p), IHC(f), ELISA	
CO101	Collagen type X	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CO141	Complement C3d	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CO144	Complement C4d	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CO204	Cornulin/HSP58	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CO218	Complement C4d	Ms	QM001	IHC(p), IHC(f)	Hu
CY008	Cyclin A/p60		AE-1	IHC(p)	
CY010	Cyclin A1 (C-terminal)		Cyclin A.1		
CY011	Cyclin A2 (N-terminal)		Cyclin A.2		

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CY012	Cyclin A2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY018	Cyclin D1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY019	Cyclin D1	Ms	DCS-6	WB	Hu, Rt, Ms
CY020	Cyclin D2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
CY022	Cyclin E1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY039	Cyclin dependent kinase 4/Cdk4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY050	Cyclin dependent kinase Cdc2/p34	Ms	POH-1	IHC(p), WB, ELISA	Hu
CY052	Cyclin dependent kinase inhibitor 1B/p27kip1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY054	Cyclin dependent kinase inhibitor 1C/p57 Kip2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY070	Cyclooxygenase 2/COX2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY152	Cytokeratin 4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY154	Cytokeratin 5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY155	Cytokeratin 5/6	Ms	D5 & 16B4	IHC(p), IHC(f)	Hu
CY157	Cytokeratin 5/8	Ms	C-50	IHC(p), IHC(f)	Hu
CY160	Cytokeratin 5/14	Ms	16.4(DE-K(bc))	IHC(p), IHC(f), WB	Hu
CY162	Cytokeratin 6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY163	Cytokeratin 7	Ms	OV-TL 12/30	IHC(p), IHC(f)	Hu
CY164	Cytokeratin 7	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY166	Cytokeratin 7	Ms	C-35	IHC(p), IHC(f), WB	Hu
CY167	Cytokeratin 7	Ms	C-68	WB	Hu
CY168	Cytokeratin 7/17	Ms	C-46	IHC(p), WB, ICC	Hu, Pg, Cw
CY169	Cytokeratin pan	Ms		IHC(p), IHC(f)	Hu
CY170	Cytokeratin 8	Ms		IHC(p), IHC(f)	Hu
CY171	Cytokeratin 8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY172	Cytokeratin 8	Ms	C-43	IHC(p), IHC(f), WB, ICC, IF	Hu, Pg, Cw
CY173	Cytokeratin 8	Ms	C-51	IHC(p), IHC(f), WB, ICC	Hu, Pg, Cw
CY174	Cytokeratin 8	Ms	TS1	IHC(p), IHC(f)	Hu
CY175	Cytokeratin 8/18	Ms	B22.1/B23.1	IHC(p), IHC(f)	Hu
CY176	Cytokeratin 10	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY178	Cytokeratin 10/13	Ms	DE-K13	IHC(p), IHC(f), WB, ICC, FACS	Hu
CY180	Cytokeratin 13	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY181	Cytokeratin 14	Ms	LL002	IHC(p), IHC(f)	Hu
CY182	Cytokeratin 14	Ms	DE-SPK14	IHC(p), IHC(f)	Hu, Rt
CY183	Cytokeratin 14/17		8.7-ker		
CY184	Cytokeratin 14	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY185	Cytokeratin 15	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY187	Cytokeratin 16	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY189	Cytokeratin 17	Ms	Ks 17.E3	IHC(p), IHC(f)	Hu
CY190	Cytokeratin 17	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY192	Cytokeratin 18	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY194	Cytokeratin 18	Ms	C-04	IHC(p), IHC(p*), IHC(f), WB, FACS, ICC, IF	Hu
CY195	Cytokeratin 18	Ms	DA7	IHC(p), WB, ELISA, FACS, ICC	Hu
CY196	Cytokeratin 18	Ms	DC10	IHC(p), IHC(f), WB, ELISA, FACS, ICC	Hu
CY197	Cytokeratin 18	Ms	DE-K18	IHC(p), IHC(f), WB, ICC, FACS	Hu, Ct, Dg
CY198	Cytokeratin 19	Ms	Ks 19.1 (also known as A53-B/A2)	IHC(p), IHC(f), WB	Hu

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CY199	Cytokeratin 19	Ms	A53-B/ A2.26	IHC(p), IHC(f)	Hu
CY200	Cytokeratin 19	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY202	Cytokeratin 20	Ms	Ks20.8	IHC(p), IHC(f)	Hu
CY203	Cytokeratin 20	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY204	Cytokeratin 34betaE12	Ms	34betaE12	IHC(p), IHC(f)	Hu
CY207	Cytokeratin AE1/AE3	Ms	AE1/AE3	IHC(p), IHC(f)	Hu
CY208	Cytokeratin HMW	Ms	AE3	IHC(p), IHC(f)	Hu
CY209	Cytokeratin LMW	Ms	AE1	IHC(p), IHC(f)	Hu
CY210	Cytokeratin pan	Ms	C-11	IHC(p), WB, FACS, ICC, IF	Hu, Rt
CY215	Cytomegalovirus	Ms	DDG9/ CCH2	IHC(p), IHC(f)	Hu
CY216	Cytomegalovirus	Ms		IHC(p)	Hu
CY236	Cytosolic phospholipase A2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Ms, Rt
CY239	Cytotoxic and regulatory T cell molecule/CRTAM	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
CY241	Cytokeratin 5/6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
CY245	Cytokeratin	Ms	MNF-116	IHC(p), IHC(f)	Hu
CY246	Cytokeratin 20	Ms	Ks20.8	IHC(p), IHC(f)	Hu
DE001	DEAD box protein 4/DDX4	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rb, Rt
DE031	Defensin alpha 5	Ms	8C8	IHC(p), IHC(f)	Hu
DE034	Defensin beta 2	Gt	Polyclonal	IHC(p), IHC(f)	Hu
DE070	Dermis expressed protein 1/ Twist2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
DE074	Desmin	Ms	D33	IHC(p), IHC(f)	Hu
DE075	Desmin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
DE078	Desmocollin 3	Ms	DSC3	IHC(p), IHC(f)	Hu
DE082	Desmoglein 3/DSG3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
DE083	Desmoplakin 1 and 2 clone cocktail	Ms	Cocktail: DP-2.15 + DP-2.17 + DP-2.20	IHC(p), IHC(f)	Hu, Bov, Rt, Ms, Ch
DN013	DNA methyltransferase 1/Dnmt1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
DN022	DNA repair protein RAD 51/RAD51	Rb	Polyclonal	IHC(p), IHC(f)	Hu
DN025	DNA repair protein RAD 54B/RAD54B	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
DO015	Double stranded DNA/dsDNA	Ms	AE-2	IHC(p), IHC(f), ICC	All species
E0003	E-cadherin L-CAM	Ms	471	IHC(p), IHC(f)	Hu
E0008	E.coli O157:H7	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF	E. coli
EL001	Elastin	Rb	Polyclonal	IHC(p*), IHC(f), WB, ELISA	Hu, Ms, Rt
EM007	Emerin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
EN026	Endothelial nitric oxidase synthase/eNOS	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
EN027	Endothelin 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
EO002	Eosinophil cationic protein/ECP	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
EO004	Eosinophil peroxidase/EPX	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
EP037	Epidermal growth factor receptor/EGFR/ErbB1	Ms	111.6	IHC(p), IHC(f), WB	Hu
EP040	Epidermal growth factor receptor/EGFR/ErbB1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
EP049	Epididymal secretory protein E4/HE4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
EP052	Epithelial membrane antigen/EMA	Ms	E29	IHC(p), IHC(f)	Hu
EP062	Epithelial specific antigen/EpCAM/CD326	Ms	323/A3	IHC(p), IHC(f), WB, ICC, IF	Hu
EP063	Epithelial specific antigen/EpCAM/CD326	Ms	VU-1D9	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu
EP064	Epithelial specific antigen/EpCAM/CD326	Ms	MOC-31	IHC(p), IHC(f)	Hu
EP066	Epithelial specific antigen/EpCAM/CD326	Rb	Polyclonal	IHC(p), IHC(f)	Hu
EP075	Epstein Barr Virus EA/p50;55	Ms	1108-1	IHC(p), ICC, IF	Hu, Viral
EP076	Epstein Barr Virus EBNA 1	Rt	1H4	IHC(p), IHC(f), ELISA	Hu

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EP077	Epstein Barr Virus EBNA 2	Rt	1E6	IHC(p), IHC(f), ELISA	Hu
EP078	Epstein Barr Virus LMP1	Rt	1G6	IHC(p), IHC(f)	Hu
EP081	Epstein Barr Virus LMP2A	Rt	4E11	IHC(p), IHC(f), ELISA, WB	Hu
EP082	Epstein Barr Virus LMP2A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Viral
EP083	Epstein Barr Virus	Ms	CS1-4	IHC(p), IHC(f)	Hu
EP084	EBV EBNA 2 (R3)				
EP085	EBV EBNA 2a (1E12)				
EP086	EBV LMP 1 (1G6)				
EP087	Epithelial specific antigen/EpCAM/CD326	Ms	Ber-EP4	IHC(p), IHC(f)	Hu
ER004	Erythrocyte	Ms	SFL 23.6	FACS	Ms
ER010	ERG	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ES006	Estrogen receptor alpha	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ES007	Estrogen receptor	Ms	AER 311	IHC(p), IHC(f), WB, ELISA	Hu, Ms
ES008	Estrogen receptor	Ms	AER 314	IHC(p), IHC(f), ELISA, WB	Hu, Ms, Rt, Bov, Rb, Cw
ES009	Estrogen receptor	Ms	1D5	IHC(p), IHC(f)	Hu, Pg, Mk, Ms, Rt
ES010	Estrogen receptor	Ms	6F11	IHC(p), IHC(f)	Hu
EU013	Eukaryotic translation initiation factor 4 subunit E/eIF4E	Rb	Polyclonal	IHC(p), IHC(f)	Hu
EU019	Eukaryotic translation initiation factor 4E binding protein 1/eIF4EBP1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
EX001	Excision repair cross complementing 1/ERCC1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FA070	Fascin	Ms	55k-2	IHC(p), IHC(f)	Hu
FA071	Fascin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FA096	Far upstream element binding protein 1/FUBP1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FI006	Fibrinogen	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
FI021	Fibroblast growth factor 7/FGF7	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
FI041	Fibroblast growth factor 23/FGF23	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
FI049	Fibroblast growth factor receptor 3/FGFR3/CD333	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
FI053	Fibronectin	Ms	616	IHC(p), IHC(p*), IHC(f), WB, IF	Hu, Pg
FI054	Fibronectin	Ms	618	IHC(p), IHC(p*), IHC(f), WB, IF	Hu
FI055	Fibronectin	Ms	TV-1	IHC(p), IHC(p*), IHC(f), WB, IF	Hu, Ms, Rt, Pg
FI056	Fibronectin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
FI057	Fibronectin cell binding site	Ms	568	IHC(p), IHC(f), WB	Hu, Ms
FI066	Fibulin 5	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
FI069	Filaggrin	Ms	FLG01	IHC(p), IHC(f)	Hu
FL007	Flightless 1/Fli1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
FO005	Follicle stimulating hormone receptor/FSH receptor	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rt
FO006	Follicle stimulating hormone/FSH	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FO007	Follicle stimulating hormone/FSH	Ms	C10	IHC(p), IHC(f)	Hu
FO008	Follicle stimulating hormone/FSH	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FO019	Forkhead box protein A1/FOXA1	Ms	2F83	IHC(p), IHC(f)	Hu
FO020	Forkhead box protein A1/FOXA1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FO031	Forkhead box protein L2/FOXL2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
FO032	Forkhead box protein M1/FOXM1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FO035	Forkhead box protein O1/FOXO1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FO039	Forkhead box protein P1/FOXP1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FO040	Forkhead box protein P3/FOXP3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
FR007	Friend leukemia integration 1/Fli-1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
G0027	G protein coupled receptor 40/GPR40	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
GA012	Galectin 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt

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GA013	Galectin 3	Ms	9C4	IHC(p), IHC(f)	Hu
GA014	Galectin 3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GA066	Gastrin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GA074	GATA binding factor 3/GATA3	Ms	L50-823	IHC(p), IHC(f)	Hu
GA075	GATA binding factor 3/GATA3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GA078	GATA binding factor 6/GATA6	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
GE002	Gemin 1/SMA	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
GE005	Geminin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GE018	Germinal center B cell expressed transcript 1/GCET1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
GI001	Giardia lamblia (Intestinalis)	Gt	Polyclonal	IHC(p*), IHC(f), IF, ELISA	Giardia
GL006	Glial fibrillary acidic protein/GFAP	Ms	GA-5	IHC(p), IHC(f)	Hu
GL009	Glial fibrillary acidic protein/GFAP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GL020	Glucagon	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GL039	Glucose regulated protein 94kDa/GRP94	Rt	9G10	IHC(p), IHC(f), WB, ICC, IF	Ms, Rt, Ch, Cw
GL041	Glucose transporter 1/GLUT1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GL046	Glucose transporter 4/GLUT4	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
GL070	Glutamate receptor 2/GluR2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GL112	Glutamine synthetase/GS	Ms	GS-6	IHC(p), IHC(f)	Hu
GL141	Glycodelin A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
GL155	Glycophorin	Ms	A84-B/H2	IHC(f), ELISA	Hu
GL156	Glycophorin A/CD235a	Ms	GA-R2 (HIR2)	IHC(p), IHC(f)	Hu
GL157	Glycophorin A/CD235a	Ms	A63-B/C2	IHC(f)	Hu
GL159	Glycophorin A/CD235a	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GL161	Glycophorin B/CD235b	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu
GL164	Glycoprotein 1B/CD42b	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GL173	Glypican 1	Rb	Polyclonal	IHC(p*), IHC(f), WB, ELISA	Hu, Ms, Rt
GL174	Glypican 3	Ms	1G12	IHC(p), IHC(f)	Hu
GL175	Glypican 3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
GL179	Glypican 3	Ms		IHC(p), IHC(f)	Hu, Ms, Rt
GO006	Golgi peripheral membrane protein p65/GRASP65	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
GO007	Golgi zone - Golgi marker	Ms	AE-6	IHC(p), IHC(f), FACS, ICC, IF	Hu
GR004	Granulocyte	Ms	BM-2	IHC(p), IHC(f)	Hu, Mk
GR007	Granulysin/GNLY	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
GR010	Granzyme B	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GR022	Gross cystic disease fluid protein 15/GCDFP15	Ms	23A3	IHC(p), IHC(f)	Hu
GR027	Gross cystic disease fluid protein 15/GCDFP15	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GR057	Growth hormone/GH	Rb	Polyclonal	IHC(p), IHC(f)	Hu
GR060	Growth hormone receptor/GHR	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
HC001	HCG/LH/FSH/TSH alpha subunits	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu
HE006	Heat shock 70kDa protein 1/HSP70	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE014	Heat shock protein 27/HSP27	Ms	G3.1	IHC(p), IHC(f), ELISA, WB, ICC	Hu, Mk
HE017	Heat shock protein 60/HSP60	Ms	LK1	IHC(p), IHC(f), ELISA, WB	Hu, Rt, Ch
HE021	Heat shock protein 90 alpha/HSP90 alpha	Rb	Polyclonal	IHC(p), IHC(f)	Hu, Ms, Rt
HE024	Heat shock protein 90 beta/HSP90beta	Rb	Polyclonal	IHC(p), IHC(f)	Hu, Ms, Rt
HE038	Helicobacter pylori	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE053	Hemoglobin alpha	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE060	Heparan sulphate proteoglycan (large)	Rt	A7L6	IHC(p), IHC(f), WB, ICC, IF	Ms, Rt, Cw, Hu, Pg
HE066	Hepatic nuclear factor 1 alpha/HNF1A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
HE067	Hepatic nuclear factor 4 alpha P1/HNF4A P1	Rb	Polyclonal	IHC(p), IHC(f)	Hu

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HE073	Hepatitis B surface antigen-ad and ay	Gt	Polyclonal	IHC(p*), ELISA, WB	Purified surface antigen
HE074	Hepatitis B virus core antigen/HBcAg	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE078	Hepatitis B virus surface antigen/HBsAg	Ms	A10F1	IHC(p), IHC(f)	Hu
HE084	Hepatitis C virus core antigen	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	HCV
HE091	Hepatitis E virus ORF3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Antibody is against HEV
HE095	Hepatocyte	Ms	EP-1	IHC(p), IHC(f)	Hu, Rt
HE096	Hepatocyte	Ms	EP-2	IHC(p), IHC(f)	Hu, Rt
HE104	Hepatocyte growth factor/HGF	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF	Hu, Ms, Rt
HE105	Hepatocyte specific antigen/Hep-Par 1	Ms	OCH1E5	IHC(p), IHC(f)	Hu
HE110	Her2/Neu	Ms	CB-11	IHC(p), IHC(f)	Hu
HE112	Her2/Neu	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE119	Her2/Neu	Ms	e2-4001	IHC(p), IHC(f), WB	Hu, Rt
HE124	Herpes Simplex Virus I & II/HSV 1/2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE125	Herpes Simplex Virus I/HSV 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE126	Herpes Simplex Virus I/HSV 1	Ms	10A3	IHC(p), IHC(f)	Hu
HE128	Herpes Simplex Virus II/HSV 2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE134	Heterogeneous nuclear ribonucleoprotein K	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE147	Hepatocyte specific antigen/Hep-Par 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HE149	Helicobacter pylori	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HI007	High mobility group box 1/HMGB1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
HI019	Histidine rich glycoprotein/HRG	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
HI037	Histone H1	Ms	AE-4	IHC(p), IHC(f), ICC, IF	Hu
HI045	Histone H3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
HO035	Homeobox Nkx 2.2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HO048	Horseradish peroxidase	Ms	V3.5	ELISA	Plants
HU002	Human chorionic gonadotropin/hCG	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HU010	Human germinal center associated lymphoma/HGAL	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HU018	Human herpes virus 8/HHV8	Ms	13B10	IHC(p), IHC(f)	Hu
HU020	Human immunodeficiency virus 1/HIV1 gp120	Ms	CB-gp120	IHC(f), ELISA	Hu
HU027	Human leukemia cell line HL60	Ms	IPO-M6	IHC(f), FACS	Hu
HU028	Human milk fat globule 1	Ms	MFG-06	IHC(p), WB, IF, ICC	Hu
HU030	Human papilloma virus 16 E6/HPV16 E6	Ms	13E2	IHC(f), ELISA	Hu
HU031	Human papilloma virus 16 E6/HPV16 E6		2F5		
HU032	Human papilloma virus 16 E6/HPV16 E6		4B12		
HU035	Human papilloma virus 16 L2/HPV16 L2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Viral
HU036	Human papilloma virus 16+18 E6/HPV16 E6 + HPV18 E6	Ms	C1P5	IHC(p), IHC(f)	Hu
HU037	Human papilloma virus 16+18 E6/HPV16 E6 + HPV18 E6	Rb	Polyclonal	IHC(p*), IHC(f)	Viral
HU041	Human papilloma virus 18 E6/HPV18 E6		3G5		
HU042	Human papilloma virus 18 E6/HPV18 E6		4G3		
HU047	Human placental lactogen/HPL	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HU057	Human herpes virus 8/HHV8/ORF8	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
HU058	Human papilloma virus Cocktail (HPV-1,6,11,16,18, 31)	Ms	BPV-1/1H8 + CAM-VIR-1	IHC(p)	Hu
HY033	Hypoxia inducible factor 1 alpha/HIF1A	Rb	Polyclonal	IHC(p), IHC(f)	Hu
HY034	Hypoxia inducible factor 1 beta/HIF1B	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
HY035	Hypoxia inducible factor 2 alpha/HIF2A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
HY036	Hypoxia Inducible factor 3 alpha/HIF3A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC, FACS	Hu, Ms, Rt
IM006	Immunoglobulin A	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IM007	Immunoglobulin A	Ms	Hisa43	IHC(p)	Hu
IM012	Immunoglobulin D	Rb	Polyclonal	IHC(p), IHC(f)	Hu

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IM016	Immunoglobulin G	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IM017	Immunoglobulin G	Ms	ICO 97	ELISA, FACS	Hu
IM020	Immunoglobulin G Fc receptor 3/CD16	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IM021	Immunoglobulin G-FITC	Gt		IF, FACS	Ms
IM023	Immunoglobulin M	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IM024	Immunoglobulin M	Ms	ICO 30	FACS	Hu
IM041	Immunoglobulin G4/IgG4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IM042	Immunoglobulin E	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IN002	Inducible nitric oxide synthase/iNOS	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
IN029	Inhibin alpha	Ms	R1	IHC(p), IHC(f)	Hu
IN030	Inhibin alpha	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IN067	Insulin	Gp	Polyclonal	IHC(p), IHC(f)	Hu
IN068	Insulin	Ms	2D11-H5	IHC(p), ELISA	Hu
IN069	Insulin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IN072	Insulin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rb, Rt
IN073	Insulin	Ms	E2-E3	IHC(p), IHC(f), ELISA	Hu, Pg, Bov
IN085	Insulin like growth factor 1/IGF1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN086	Insulin like growth factor 1/IGF1	Rb	Polyclonal	IHC(p), IHC(f)	Ms, Rt
IN090	Insulin like growth factor 2 mRNA binding protein 3/IMP3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IN092	Insulin like growth factor binding protein 1/IGFBP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN112	Insulin related protein/Islet 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
IN116	Integrase interactor 1/INI-1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN122	Integrin alpha V + beta 1/CD51+CD29	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN123	Integrin alpha V + beta 3/CD51+CD61	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS,	Hu, Ms, Rt
IN135	Interferon alpha 1/IFNA1	Ms	2-48	IHC(f), ELISA, WB	Hu
IN136	Interferon alpha 1/IFNA1	Ms	2-52	IHC(f), ELISA, WB	Hu
IN138	Interferon alpha 2/IFNA2	Ms	N27	IHC(f), ELISA, WB	Hu
IN139	Interferon alpha 2/IFNA2	Ms	N39	IHC(f), ELISA, WB	Hu
IN154	Interferon gamma	Ms	G23	IHC(p), IHC(f), WB, ELISA	Hu
IN155	Interferon gamma	Ms	G30	WB	Hu
IN172	Interleukin 1 beta	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN174	Interleukin 1 beta	Rb	Polyclonal	ELISA, WB	Rt
IN194	Interleukin 4	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN195	Interleukin 4	Rt	11B11	IHC(p*), ELISA	Ms
IN202	Interleukin 6	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Ms, Rt
IN208	Interleukin 6	Rb	Polyclonal	ELISA, WB	Rt
IN217	Interleukin 10	Rb	Polyclonal	ELISA, WB	Rt
IN227	Interleukin 13	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
IN235	Interleukin 17	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Ms, Rt
IN274	Internexin alpha	Ms	2E3	IHC(p), IHC(f), ELISA, WB	Hu, Ms, Rt, Ch, Bov
IN275	Intestinal alkaline sphingomyelinase/ENPP7	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
IN279	Involucrin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu
IS003	Isocitrate dehydrogenase 1/IDH1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
IS004	Isocitrate dehydrogenase 2/IDH2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
KA009	Kallikrein 8/KLK8	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
KA020	Kappa	Ms	L1C1	IHC(p), IHC(f)	Hu
KA021	Kappa light chain	Ms	BS3	IHC(p), IHC(f)	Hu
KA022	Kappa light chain	Rb	Polyclonal	IHC(p), IHC(f)	Hu
KA023	Kappa light chain	Rb	Polyclonal	IHC(p), IHC(f)	Hu
KI001	Ki67	Rb	Polyclonal	IHC(p), IHC(f)	Hu
KI003	Ki67	Rb	Polyclonal	IHC(p), IHC(f)	Hu, Rt

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KI028	Ki67	Ms	MIB-1	IHC(p), IHC(f)	Hu, Rt
LA001	Lactalbumin alpha	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
LA019	Lambda	Ms	Lamb14	IHC(p), IHC(f)	Hu
LA020	Lambda	Ms	ICO106	IHC(f), FACS	Hu
LA021	Lambda light chain	Rb	Polyclonal	IHC(p), IHC(f)	Hu
LA023	Lamin A/C	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
LA026	Lamin B2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
LA027	Laminin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
LA030	Laminin alpha 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
LI003	LIM domain only 2/LMO2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
LI016	Lin 28 homolog/LIN28	Rb	Polyclonal	IHC(p), IHC(f)	Hu
LI026	Lipocalin 2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rt
LI037	Listeria monocytogenes-ATCC 43251	Rb		IHC(p*), ELISA, WB	
LO005	Low density lipoprotein receptor related protein 2/LRP2/Megalin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rb, Rt
LU012	Lupus Ku autoantigen protein p86/Ku86	Ms	J15	WB	Hu, Mk
LU013	Luteinizing hormone releasing hormone receptor	Ms	A9E4	IHC(f), WB, ELISA, FACS	Hu
LU014	Luteinizing hormone releasing hormone receptor	Ms	F1G4 (also GNRH03)	IHC(p), IHC(f), WB, ELISA, FACS	Hu
LU017	Luteinizing hormone/choriogonadotropin receptor/LHCGR	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rb, Rt
LU018	Luteinizing hormone/LH	Rb	Polyclonal	IHC(p), IHC(f)	Hu
LU022	Luteinizing hormone/LH	Ms	LH01	IHC(p), IHC(f)	Hu
LY012	Lymphocyte function associated antigen 3/CD58	Rb	Polyclonal	IHC(p), IHC(f)	Hu
LY014	Lymphocyte specific protein 1/LSP1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
LY016	Lymphoid enhancer binding factor 1/LEF1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
LY024	Lysine specific demethylase 5B/KDM5B	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC, FACS	Hu, Ms, Rt
LY035	Lysozyme	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MA002	Macrophage	Ms		IHC(p), IHC(f)	Hu
MA003	Macrophage	Ms	EP-3	IHC(p), IHC(f)	Hu
MA004	Macrophage	Ms	LN-5	IHC(p), IHC(f)	Hu
MA009	Major histocompatibility complex/MHC I (beta2 microglobulin)	Ms	246-E9.E7 (HLA.ABC.m2)	ELISA, FACS	Hu
MA010	Major histocompatibility complex class I/MHC class I	Rb	Polyclonal	IHC(p*), IHC(f),	Hu
MA011	Major histocompatibility complex class I HLA-A	Ms	108-2C5	IHC(f), WB, FACS	Hu
MA012	Major histocompatibility complex class I HLA-B	Ms	JOAN-1	IHC(p), IHC(f), WB	Hu, Ms
MA014	Major histocompatibility complex class I HLA-B27	Ms	EP-4	IHC(p), IHC(f), ICC	Hu
MA016	Major histocompatibility complex class I HLA-A/B/C	Ms	246-B8.E7	IHC(f), FACS	Hu
MA017	Major histocompatibility complex class I HLA-A/B/C	Ms	Bra23/9	WB, FACS	Hu
MA026	Major histocompatibility complex class II	Rt	IBL-5/22	IHC(p), IHC(p*), IHC(f), WB, FACS	Ms
MA030	Major histocompatibility complex class II HLA-DP beta	Ms	BraFB6 (B410)	IHC(p), IHC(f), FACS	Hu
MA031	Major histocompatibility complex class II HLA-DP + DR beta	Ms	Bra14		
MA032	Major histocompatibility complex class II HLA-DQ	Ms	SPV-L3	IHC(f), FACS	Hu, Pg
MA033	Major histocompatibility complex class II HLA-DR	Ms	169-1B5.2	IHC(f), FACS	Hu
MA034	Major histocompatibility complex class II HLA-DR	Ms	19-26.1		
MA035	Major histocompatibility complex class II HLA-DR	Ms	LN-3	IHC(p), IHC(f)	Hu
MA036	Major histocompatibility complex class II HLA-DR/CDw78	Ms	DF1588	IHC(f), FACS	Hu
MA037	Major histocompatibility complex class II HLA-DR/CDw78	Ms	IPO-10	IHC(p), IHC(f), WB	Hu
MA038	Major histocompatibility complex class II HLA-DR alpha	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MA039	Major histocompatibility complex class II HLA-DR alpha/beta	Ms	Bra30	IHC(f), WB, FACS, ICC	Hu
MA042	Major vault protein	Ms	1011	IHC(f), WB	Hu
MA043	Major vault protein	Ms	1014	IHC(f), WB, FACS	Hu

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MA044	Major vault protein	Ms	1027	IHC(f), WB	Hu
MA045	Major vault protein	Ms	1032	IHC(p), IHC(f), WB	Hu, Rt
MA055	Mammaglobin	Rb	31A5	IHC(p), IHC(f)	Hu
MA057	Mammaglobin A	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MA060	Mammaglobin cocktail	Rb + Ms		IHC(p), IHC(f)	Hu
MA061	Mammalian achaete scute homolog 1/MASH1/ASCL1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MA064	Mammalian target of rapamycin/mTOR	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Hu, Ms, Rb, Rt
MA083	Matrilin 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
MA091	Matrix metalloproteinase 2/MMP2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
MA095	Matrix metalloproteinase 7/MMP7	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MA100	Matrix metalloproteinase 9/MMP9	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MA103	Matrix metalloproteinase 11/MMP11	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
ME001	Measles virus fusion protein	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Viral
ME012	Meiotic recombination 11 homolog 1/Mre11	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ME022	Melanocyte specific protein 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
ME023	Melanocyte stimulating hormone alpha/MSH alpha	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Ms, Rt
ME026	Melanoma/HMB-45	Ms	HMB-45	IHC(p), IHC(f)	Hu
ME028	Melan A/MART1	Ms	M2-7C10	IHC(p), IHC(f)	Hu
ME029	Melan A/MART1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ME030	Melanoma associated antigen	Ms	KBA.62	IHC(p), IHC(f)	Hu
ME062	Melatonin receptor 1A/MTNR1A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rt
ME092	Mesothelial cell	Ms	HBME-1	IHC(p), IHC(f)	Hu
ME093	Mesothelin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ME113	Methylguanine DNA methyltransferase/MGMT	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ME119	Mevalonate pyrophosphate decarboxylase/MVD	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
ME120	Melan A/ MART-1	Ms	A103	IHC(p), IHC(f)	Hu
MI002	Microfibril associated glycoprotein 2/MFAP5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MI004	Microglia response factor/AIF1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MI007	Microphthalmia associated transcription factor/MITF	Ms	C5/D5	IHC(p), IHC(f)	Hu
MI020	Microtubule associated protein 2/MAP2	Ms	AP18	IHC(p), IHC(f)	Hu, Rt, Cw, Ms
MI037	Minichromosome maintenance protein 2/MCM2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MI038	Minichromosome maintenance protein 3/MCM3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MI040	Minichromosome maintenance protein 5/MCM5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MI041	Minichromosome maintenance protein 7/MCM7	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Ms, Rt
MI042	Mitochondria	Ms	MTC	IHC(p), IHC(f)	Hu
ML001	MLH1	Ms		IHC(p), IHC(f)	Hu
ML003	MLH1	Ms	G168-15	IHC(p)	Hu, Ms, Rt
ML004	Unreleased_MLH1	Ms	GM011	IHC(p), IHC(f)	Hu
MO029	Mouse double minute 2/MDM2	Ms	SMP14	IHC(p), IHC(f), ELISA, WB	Hu
MO032	Mothers against decapentaplegic homolog 4/SMAD4	Ms	B-8	IHC(p), IHC(f)	Hu
MS001	MSH2	Ms		IHC(p), IHC(f)	Hu
MS002	MSH2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MS005	MSH6	Ms	44	IHC(p), IHC(f)	Hu
MS006	MSH6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MU001	Mucin 1/MUC1	Ms	115 D8	IHC(p), IHC(f), WB	Hu
MU002	Mucin 1/MUC1	Ms	139 H2	IHC(p), IHC(f), ELISA, FACS	Hu, Ms
MU004	Mucin 1/MUC1	Ms	A76-A/C7	IHC(p), IHC(f)	Hu
MU005	Mucin 1/MUC1	Ms	HMPV	IHC(p), IHC(f)	Hu
MU006	Mucin 1/MUC1	Ms	VU-11D1	IHC(p), IHC(f), ELISA	Hu, Ms

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MU007	Mucin 1/MUC1	Ms	VU-11E2	IHC(p), IHC(f), ELISA, ICC, IF	Hu
MU008	Mucin 1/MUC1	Ms	VU-12E1	IHC(p), IHC(f), ELISA	Hu, Ms
MU009	Mucin 1/MUC1	Ms	VU-13F11	IHC(p), IHC(f), ELISA	Hu, Ms
MU010	Mucin 1/MUC1	Ms	VU-2G7	IHC(p), IHC(f), ELISA	Hu, Ms
MU011	Mucin 1/MUC1	Ms	VU-3C6	IHC(p), IHC(f), ELISA	Hu, Ms
MU012	Mucin 1/MUC1	Ms	VU-3D1	IHC(p), IHC(f), ELISA	Hu, Ms
MU013	Mucin 1/MUC1	Ms	VU-4H5	IHC(p), IHC(f), WB, ELISA	Hu
MU014	Mucin 2/MUC2	Ms	Ccp58	IHC(p), IHC(f), WB, ELISA, FACS, ICC, IF	Hu
MU015	Mucin 2/MUC2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MU016	Mucin 3/MUC3	Ms	M3.1	IHC(f), WB, ELISA, FACS	Hu, Ms
MU018	Mucin 4/MUC4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MU020	Mucin 5AC/MUC5AC	Ms	1-13M1	IHC(p), IHC(f), WB, ELISA	Hu
MU021	Mucin 5AC/MUC5AC	Ms	2-11M1	IHC(p), IHC(p*), IHC(f), WB, FACS	Hu, Ms
MU022	Mucin 5AC/MUC5AC	Ms	2-12M1	IHC(p), IHC(f), WB	Ms
MU023	Mucin 5AC/MUC5AC	Ms	45M1	IHC(p), IHC(f), ELISA, FACS, ICC, IF	Hu, Ms, Rb, Rt
MU024	Mucin 5AC/MUC5AC	Ms	58M1	IHC(p), IHC(f), WB	Ms
MU025	Mucin 5AC/MUC5AC	Ms	9-13M1	IHC(p), IHC(f), WB, ELISA	Ms
MU026	Mucin 5AC/MUC5AC	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MU043	Multidrug resistance protein 1/MDR1/CD243	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MU048	Multiple myeloma oncogene 1/MUM1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MU062	Mucin 1/MUC1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY008	Mycobacterium tuberculosis	Rb		IHC(p), IHC(f), ELISA	M. tub.
MY018	Myelin basic protein/MBP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY029	Myeloid cell leukemia 1/Mcl1	Ms	RC13	IHC(p), IHC(f)	Hu
MY030	Myeloid differentiation marker 88/MyD88	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
MY034	Myeloid specific marker	Ms	BM-1	IHC(p), IHC(f), FACS, ICC, IF	Hu
MY035	Myeloid specific marker	Ms	BM-4	IHC(p), IHC(f)	Hu
MY036	Myeloid specific marker	Ms	BM-5	IHC(p), IHC(f)	Hu
MY038	Myeloperoxidase/MPO	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY039	Myeloperoxidase/MPO	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY048	Myogenic differentiation 1/MyoD1	Ms	5.8A	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt, Ch
MY049	Myogenic differentiation 1/MyoD1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY052	Myogenin	Ms	F5D	IHC(p), IHC(f)	Hu
MY053	Myogenin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY054	Myoglobin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY067	Myosin heavy chain 11/MYH11 smooth muscle	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY070	Myosin light chain 2/MYL2 skeletal muscle	Rb	Polyclonal	IHC(p), IHC(f)	Hu
MY081	Myosin skeletal muscle	Ms	MYSN02	IHC(p), IHC(f)	Hu
MY082	Myosin smooth muscle/SMMHC	Ms	SMMS-1	IHC(p), IHC(f)	Hu
N0002	N-acetylglucosamine kinase	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Hu, Ms, Rt
N0010	N-myc downstream regulated gene 1/NDRG1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NA032	Nanog homeobox	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NA036	Napsin A	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NA047	Napsin A + TTF-1	Rb + Ms		IHC(p), IHC(f)	Hu
NE008	Negative Control LNC	Ms		IHC(p), IHC(f)	Hu
NE021	Nerve growth factor receptor/NGFR	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NE027	Nestin	Ms	10C2	IHC(p), IHC(f)	Hu
NE029	Nestin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NE084	Neurofilament	Ms	2F11	IHC(p), IHC(f)	Hu

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NE085	Neurofilament H (200 kDa)	Ms	NE14	IHC(p), IHC(f), WB	Hu, Rt, Pg
NE087	Neurofilament L (68 kDa)	Ms	NR4	IHC(p), IHC(f), WB	Hu, Rt, Ch
NE089	Neurofilament M (160 kDa)	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NE125	Neuron specific enolase/NSE	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
NE135	Neuronal nuclei antigen/NeuN	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
NE179	Neutrophil elastase	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NK001	NKX3.1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NO012	Non metastatic cells 1 protein/Nm23	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NO018	Notch1	Ms	A6	IHC(p*), FACS	Hu
NO023	Notch3	Rb	Polyclonal	IHC(p*), IHC(f), WB, IF, ICC	Hu, Ms, Rt
NU001	Nuclear antigen	Ms	IPO-38	IHC(p), IHC(f), WB, ELISA	Hu, Ms, Rt
NU024	Nuclear matrix protein p84	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NU025	Nuclear membrane antigen	Ms	AE-5	IHC(p), IHC(f), FACS	Hu
NU026	Nuclear mitotic apparatus protein/NuMA	Ms	A73-B/D12	IHC(p), IHC(f), WB	Hu
NU039	Nuclear receptor subfamily 0 group B member 1/NR0B1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
NU057	Nucleoli	Ms	AE-3	IHC(p), IHC(f), FACS	Hu
NU059	Nucleophosmin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
OC005	Octamer binding transcription factor 2/OCT2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
OC008	Octamer binding transcription factor 4/OCT4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
OL010	Oligodendrocyte lineage transcription factor 1/Olig1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
OL011	Oligodendrocyte lineage transcription factor 2/Olig2	Ms		IHC(p), IHC(f)	Hu
OL012	Oligodendrocyte lineage transcription factor 2/Olig2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
OL017	Olfactory Marker Protein	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Hu, Ms, Rt
ON002	Oncogene Bmi1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ON010	Oncogene ROS1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
OS003	Osteocalcin	Ms	OCG2	IHC(p), IHC(f), WB	Hu, Rt, Cw, Ch, Dg, Gt, Pg, Rb, Sh
OS004	Osteocalcin/BGP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
OS013	Osteopontin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
OS014	Osteopontin	Rb	Polyclonal	IHC(p), IHC(f), WB	Hu
P1001	p13	Ms	BM-3	IHC(f), FACS	Hu
P1003	p105	Ms	2B3	IHC(p), IHC(f), WB	Hu
P1004	p120	Rb	Polyclonal	IHC(p), IHC(f)	Hu
P2001	p21 WAF1	Ms	DCS-60.2	IHC(p), IHC(f)	Hu
P2002	p21 WAF1	Ms	WA-1	IHC(p), IHC(f), WB, ELISA, ICC	Hu, Rt, Mk
P2010	p27Kip1	Ms	SX53G8	IHC(p), IHC(f)	Hu
P2011	p21 WAF1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
P4001	p40	Rb	Polyclonal	IHC(p), IHC(f)	Hu
P5001	p53	Ms	DO7	IHC(p), IHC(f)	Hu
P5002	p53	Ms	Bp53-12	IHC(p), WB, ELISA, ICC	Hu
P5003	p53	Rb	Polyclonal	IHC(p)	Hu
P5004	p53	Ms	PAb122	IHC(f), WB, FACS, ICC	Hu, Ms, Rt
P5005	p53	Ms	DO-1	IHC(p*), IHC(f), WB, IF, IP	Hu
P5018	p57Kip2	Ms	Kp10	IHC(p), IHC(f)	Hu
P5019	p57Kip2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
P6001	p63	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA004	Paired like homeobox 2b/PHOX2B	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA027	Pancreatic and duodenal homeobox 1/PDX1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA051	Parathyroid Hormone/PTH (N-terminal)	Ms	BGN/1F8	IHC(p), IHC(f)	Hu
PA052	Parathyroid hormone related protein/PTHrP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PA060	Parvalbumin	Ms	2E11	IHC(p), IHC(f)	Hu

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Cat. No.	Product Name	Host	Clone	Application	Reactivity
PA061	Parvalbumin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA062	Parvovirus B19	Ms	R92F6	IHC(p), IHC(f)	Hu
PA071	PAX2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA072	PAX2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA073	PAX3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC, FACS	Hu, Ms, Rt
PA075	PAX5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA076	PAX6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA077	PAX7	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PA078	PAX8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA079	PAX8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA081	Paxillin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA082	PAX5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PA083	PAX8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PE005	Penicillin	Ms	Pen 9	ELISA	Not species specific.
PE051	Peroxisome proliferator activated receptor beta/delta/PPAR beta/delta	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PE058	Perforin	Ms	Polyclonal		Hu
PH008	Phosphatase and tensin homolog/PTEN	Rb	Polyclonal	IHC(p*), IHC(f), WB, ELISA	Hu, Ms, Rt
PH024	Phospho AKT1 (Tyr474)	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PH058	Phospho FAS (Tyr232)	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu
PH091	Phospho PCNA (Tyr211)	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC, FACS	Hu, Ms, Rt
PH116	Phosphohistone H3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PI013	Pituitary adenylate cyclase activating polypeptide 27/38/PACAP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PL004	Placental alkaline phosphatase/PLAP	Ms	PL8-F6	IHC(p), IHC(f)	Hu
PL005	Placental alkaline phosphatase/PLAP	Ms	F5C2	IHC(f), WB, ELISA	
PL006	Placental alkaline phosphatase/PLAP	Ms	H7E8	IHC(p), IHC(f), WB, ELISA	Hu
PL044	Pleiomorphic adenoma gene 1/PLAG1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PL056	Placental alkaline phosphatase/PLAP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PM001	Pmel17/gp100	Ms	NKI/beteb	IHC(p), IHC(f), FACS, ICC, IF	Hu
PM004	PMS2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PM005	Pmel17/gp100	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PN001	Pneumocystis carinii	Ms	3F6	IHC(p), IHC(f)	Hu
PN002	PNL2/Melanoma	Ms	PNL2	IHC(p), IHC(f)	Hu
PO001	Podocalyxin/PODXL	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PO004	Podoplanin	Ms	D2-40	IHC(p), IHC(f)	Hu
PO008	Polo like kinase 1/PLK1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PO040	Porcine reproductive and respiratory syndrome/PRRSV M protein	Rb	Polyclonal	ELISA, WB	PRRSV
PR025	Progesterone receptor/PR	Rb	Y85	IHC(p), IHC(f)	Hu
PR026	Progesterone receptor/PR	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR027	Progesterone receptor/PR	Ms	hPRa2	IHC(p), IHC(f)	Hu
PR034	Programmed cell death 1/PD 1/CD279	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR035	Programmed cell death 4/PDCD4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR045	Prolactin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR046	Prolactin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
PR047	Prolactin	Ms	PRL02	IHC(p), IHC(f)	Hu
PR049	Proliferating cell nuclear antigen/PCNA	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR051	Proliferating cell nuclear antigen/PCNA	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PR080	Prostaglandin E receptor 1 EP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
PR082	Prostaglandin E receptor 3 EP3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
PR087	Prostaglandin I2 receptor	Rb	Polyclonal	IHC(p*), IHC(f), ELISA	Dg, Hu, Rb

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PR095	Prostate Specific Antigen/PSA	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR105	Prostate specific antigen phosphorylated/PSAP	Ms	PASE/4LJ	IHC(p), IHC(f)	Hu
PR107	Prostate specific membrane antigen/FOLH1/PSMA	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR110	Prostatic acid phosphatase/PAP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR111	Prostatic acid phosphatase/PAP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR113	Prostein	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR153	Protein gene product 9.5	Rb	Polyclonal	IHC(p), IHC(f)	Hu
PR289	Proviral integration site 1/PIM1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
PR290	Proximal nephrogenic renal antigen/Renal cell carcinoma	Ms	PN-15	IHC(p), IHC(f), WB	Hu, Rt
PU031	PU.1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
RA007	Rabies virus	Ms	Rab50	IHC(f), WB, ELISA	Viral
RE043	Relaxin 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
RE049	Renal cell carcinoma	Ms	PN-15	IHC(p), IHC(f)	Hu
RE118	Retinoid related orphan receptor gamma/ROR gamma	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
RE123	Retinol binding protein/RBP	Ms	G4E4	IHC(p), IHC(f), ELISA	
RH018	Rho related GTP binding protein RhoA	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF	Hu, Ms, Rt
RI005	Ribonucleoprotein	Ms	58-15	IHC(p), IHC(f), FACS	Hu, Rt
RI007	Ribonucleotide reductase R1/RRM1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
RU003	Runt related transcription factor 2/RUNX2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1001	S100	Ms	4C4.9	IHC(p), IHC(f)	Hu
S1003	S100 protein	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1004	S100A1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1006	S100A4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1008	S100A6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1013	S100A8	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1016	S100A9	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1017	S100A9	Ms	DF 3753	IHC(p), IHC(f), ELISA, WB	Hu
S1018	S100A9	Ms	DF 3973	IHC(p), IHC(f), ELISA, WB	Hu
S1023	S100 beta	Rb	Polyclonal	IHC(p), IHC(f)	Hu
S1025	S100P	Ms		IHC(p), IHC(f)	Hu
S1026	S100P	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SA003	Sal like 4/SALL4	Ms	6E3	IHC(p), IHC(f)	Hu
SA004	Sal like 4/SALL4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SA021	Sarcoendoplasmic reticulum calcium ATPase 1/SERCA1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
SD001	SDHB	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SE001	Secretagogen/SCGN	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SE003	Secreted frizzled related protein 1/SFRP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
SE014	Secretory component	Ms	SC-05	IHC(p), IHC(f), WB	Hu
SE160	Serum amyloid A/SAA	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SE161	Serum amyloid P/SAP	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
SI003	Sialic acid binding Ig like lectin 11/SIGLEC11	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu
SI015	Signal transducer and activator of transduction 3/STAT3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF	Hu, Ms, Rb, Rt
SI019	Signal transducer and activator of transduction 6/STAT6	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SJ001	Sjogren syndrome type A antigen/SSA	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Hu, Ms
SM001	Smad interacting protein 1/SIP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
SM014	Smoothelin	Ms	R4A	IHC(p), IHC(f)	Hu
SO032	Sodium potassium ATPase alpha 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, FACS, WB	Hu, Ms, Rb, Rt
SO083	Solute carrier family 40 member 1/SLC40A1	Rb	Polyclonal	IHC(p*), IHC(f)	Hu, Ms, Rt
SO084	Somatostatin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SO088	Somatostatin receptor 2/SSTR2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SO089	Somatostatin receptor 3/SSTR3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt

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SO108	SOX2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SO113	SOX9	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SO115	SOX10	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SO117	SOX11	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
SO119	SOX17	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Hu, Ms, Rt
SO122	SOX10	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SP005	Special AT rich sequence binding protein 2/SATB2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SP008	Spectrin	Ms	RBC2/3D5	IHC(p), IHC(f)	Hu
SP052	Spectrin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ST007	START domain containing 1/STARD1/STAR	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ST010	Stathmin/STMN1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ST038	Stromal antigen 2/STAG2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
ST047	Steroidogenic factor 1/SF1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SU009	Sucrose nonfermenting 2 like protein 2/SMARCA2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
SU039	Surfactant protein A/SP-A	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
SU040	Surfactant protein B/SP-B	Ms	SPB1	IHC(p), IHC(f)	Hu, Rt
SU044	Survivin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
SY028	Synaptophysin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
T0001	T box protein 1/TBX1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
T0004	T box protein 3/TBX3	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
T0007	T box protein 21/TBX21/T bet	Rb	Polyclonal	IHC(p), IHC(f)	Hu
T0011	T cell immunoglobulin and mucin domain protein 1/TIM1/KIM1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
T0016	T cell receptor gamma/TCRG	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
T0017	T cell receptor (delta/gamma)	Ms	5A6	IHC(p), IHC(f), FACS	Hu
T0018	T cell restricted intracellular antigen 1/TIA1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
T0022	T cell leukemia/lymphoma protein 1A/TCL1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TA008	Tartrate resistant acid phosphatase/TRAP	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TA009	Tartrate resistant acid phosphatase/TRAP	Ms		IHC(p), IHC(f)	Hu
TA024	Tau tubulin kinase 1/TTBK1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TE007	Telomerase reverse transcriptase/TERT	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TE016	Tenascin C	Ms	T2H5	IHC(p), IHC(f), WB, ELISA	Hu
TE027	Terminal deoxynucleotidyltransferase/TdT	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TE028	Terminal deoxynucleotidyltransferase/TdT	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TE030	Testes specific protease 50/TSP50	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu
TH014	Thrombomodulin/CD141	Ms	1009	IHC(p), IHC(f)	Hu
TH033	Thyroglobulin	Ms	2H11	IHC(p), IHC(f)	Hu
TH034	Thyroglobulin	Ms	2H11+6E1	IHC(p), IHC(f)	Hu
TH035	Thyroglobulin	Ms	6E1	IHC(p), IHC(f)	Hu
TH036	Thyroglobulin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TH047	Thyroid stimulating hormone/TSH	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TH050	Thyroid stimulating hormone beta/TSHB	Ms	2T11	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
TH051	Thyroid stimulating hormone receptor/TSHR	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TH055	Thyroid transcription factor 1/TTF 1	Ms	8G7G3/1	IHC(p), IHC(f)	Hu
TH058	Thyroid transcription factor 1/TTF 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TH060	Thyroperoxidase/TPO	Rb	Polyclonal	IHC(p), IHC(f)	Hu
Ti005	Tissue inhibitor of metalloproteinase 2/TIMP2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
Ti008	Tissue non specific alkaline phosphatase/AKP2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
TO014	Topoisomerase 2 alpha	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR016	Transcription factor CRX1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR023	Transcription factor E2F 4/E2F4	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR027	Transcription factor E3/TFE3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR031	Transcription factor related to Brachyury gene/TBR1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt

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TR050	Transducin-like enhancer of split 1/TLE1	Ms	1F5	IHC(p), IHC(f)	Hu
TR053	Transferrin receptor 2/TFR2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
TR056	Transforming growth factor alpha/TGF alpha	Ms	1E8-G6	IHC(p), ELISA	Hu
TR059	Transforming growth factor beta 1/TGF beta 1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt, Pg
TR065	Transforming growth factor beta 3/TGF beta 3	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF, ICC	Hu, Ms, Rt
TR077	Transglutaminase 2/TGM2 Cellular/Tissue	Ms	CUB7402	IHC(p), IHC(f), ELISA, WB	Hu, Gp, Ms, Rt, Rb, Dg
TR089	Transient receptor potential cation channel V1/TrpV1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TR115	Transmembrane protein 16A/TMEM16A/Dog-1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR133	Transporter 1 ATP binding cassette sub family B/TAP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TR136	Transthyretin/Prealbumin	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TR137	Trefoil factor 1/TFF1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR139	Trefoil factor 3/TFF3	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR174	Troponin I	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR175	Troponin T	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR177	Tryptase	Ms	G3	IHC(p), IHC(f)	Hu
TR178	Tryptase/Mast cell tryptase	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TR182	Treponema pallidum	Rb	Polyclonal	IHC(p*), ELISA, WB	Treponema pallidum
TR183	Transthyretin/Prealbumin	Rb	Polyclonal	IHC(p*), IHC(f)	Hu
TU004	Tubulin	Ms	AE-8	IHC(p), IHC(f)	Hu
TU005	Tubulin alpha	Ms	TU-02	IHC(p), WB, ELISA, FACS, ICC	Hu, Ms, Rt
TU006	Tubulin alpha	Ms	TU-16	IHC(p), IHC(f), WB, ICC	Ch, Pg
TU022	Tumor associated calcium signal transducer 2/TACD2	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TU023	Tumor associated glycoprotein 72/TAG 72	Ms	B72.3	IHC(p), IHC(f)	Hu
TU027	Tumor necrosis factor alpha induced protein 2/TNFAIP2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TU032	Tumor necrosis factor alpha induced protein 8/TNFAIP8	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
TU033	Tumor necrosis factor alpha/TNF alpha	Ms	4C6-H8	IHC(p), IHC(f), ELISA	Hu, Ms, Rt
TU034	Tumor necrosis factor alpha/TNF alpha	Ms	J1D9	WB, ELISA	Hu
TU035	Tumor necrosis factor alpha/TNF alpha	Ms	J2D10	WB, ELISA	Hu
TU036	Tumor necrosis factor alpha/TNF alpha	Rb	Polyclonal		
TU037	Tumor necrosis factor alpha/TNF alpha	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rb, Rt
TW003	TWIST protein	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	
TY003	Tyrosinase	Rb	Polyclonal	IHC(p), IHC(f)	Hu
TY004	Tyrosinase related protein 1/TRP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
TY005	Tyrosinase related protein 2/TRP2	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Hu, Ms, Rt
TY022	Tyrosinase	Ms	T311	IHC(p), IHC(f)	Hu
UB004	Ubiquitin	Rb	Polyclonal	IHC(p), IHC(f)	Hu, Ms, Rt, Cw
UL003	Ulex europaeus agglutinin/UEA1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, IF, ICC	Ulexeuropaeus
UN009	Uncoupling protein 1/UCP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt
UR010	Uroplakin III	Ms	AU-1	IHC(p), IHC(f)	Hu
UR015	Uroplakin III	Rb	Polyclonal	IHC(p), IHC(f)	Hu
VA003	Vaccinia virus	Rb	Polyclonal	IHC(p*), ELISA, WB	Viral
VA004	Vaccinia virus (FITC)	Rb	Polyclonal	IF	Viral
VA005	Vaccinia virus (w/o azide)	Rb	Polyclonal	IHC(p*), ELISA, WB	Viral
VA018	Varicella Zoster virus	Ms		IHC(p), IHC(f)	Hu
VA020	Vascular endothelial growth factor/VEGF	Ms	JH121	IHC(p), IHC(f)	Hu, Rb
VA022	Vascular endothelial growth factor/VEGF	Rb	Polyclonal	IHC(p), IHC(f), WB	Hu, Ms, Rt
VA024	Vascular endothelial growth factor A/VEGFA	Rb	Polyclonal	IHC(p*), IHC(f), WB	Hu, Ms, Rt
VA031	Vascular endothelial growth factor receptor 1/VEGFR1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB	Hu, Ms, Rt

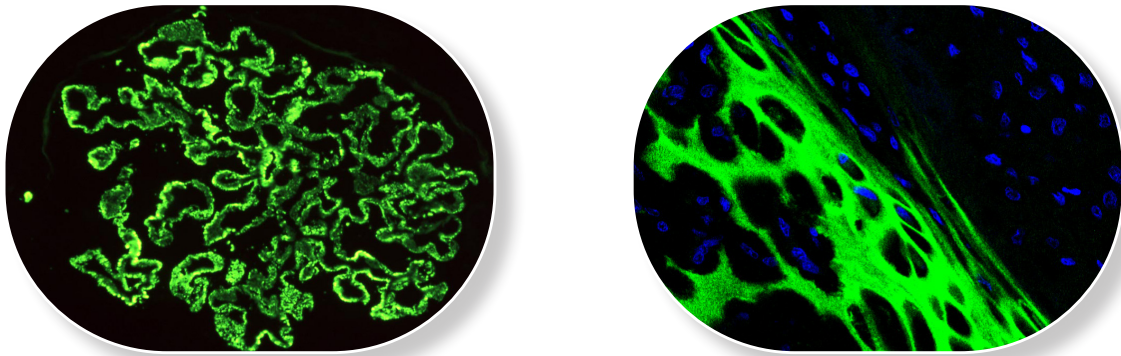
Errors and misprints excepted. If you need help with the catalog number, just ask our customer service team.

* reported as working on; ** only special packing sizes available; If you want to place an order, please follow our instructions on page 9.

Cat. No.	Product Name	Host	Clone	Application	Reactivity
VI003	Villin	Ms	CWWB1	IHC(p), IHC(f)	Hu
VI004	Villin 1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
VI006	Vimentin	Ms	V9	IHC(p), IHC(f)	Hu
VI007	Vimentin	Rb	Polyclonal	IHC(p), IHC(f)	Hu
VI009	Vimentin	Ms	LN-6	IHC(p)	Hu, Ms
WI006	Wilms tumor 1/WT1	Ms	6F-H2	IHC(p), IHC(f)	Hu
WI007	Wilms tumor 1/WT1	Rb	Polyclonal	IHC(p), IHC(f)	Hu
YE001	Yellow fever virus envelope glycoprotein E	Rb	Polyclonal	IHC(p*), IHC(f)	Viral
YE002	Yes associated protein 1/YAP1	Rb	Polyclonal	IHC(p*), IHC(f), ELISA, WB, IF	Hu, Ms, Rt
ZA001	ZAP-70	Ms	2F3.2	IHC(p), IHC(f)	Hu
ZA002	ZAP-70	Rb	Polyclonal	IHC(p), IHC(f)	Hu

1.3 Antibodies FITC-conjugated

Antibodies are linked to fluorescein isothiocyanate (FITC) and used in immunofluorescence microscopy and flow cytometry. Next to FITC-conjugated antibodies **quartett** offers reagents for immunofluorescence applications, such as mounting media and blocking reagents (see chapter 3).



Cat. No.	Product Name	Source	Clone	Application	Reactivity	Format	Quantity
2090620120	ProTaqs® C1q FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620130	ProTaqs® C1q FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620170	ProTaqs® C1q FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620220	ProTaqs® C3c FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620230	ProTaqs® C3c FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620270	ProTaqs® C3c FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090621720	ProTaqs® C3d FITC	Sheep	polyclonal	IF	Hu	Concentrate	2 ml
2090621730	ProTaqs® C3d FITC	Sheep	polyclonal	IF	Hu	Ready-to-use	3 ml
2090621770	ProTaqs® C3d FITC	Sheep	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620320	ProTaqs® C4 FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620330	ProTaqs® C4 FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620370	ProTaqs® C4 FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090621620	ProTaqs® C5 FITC	Sheep	polyclonal	IF	Hu	Concentrate	2 ml
2090621630	ProTaqs® C5 FITC	Sheep	polyclonal	IF	Hu	Ready-to-use	3 ml
2090621670	ProTaqs® C5 FITC	Sheep	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620420	ProTaqs® Fibrinogen FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620430	ProTaqs® Fibrinogen FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620470	ProTaqs® Fibrinogen FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620520	ProTaqs® IgA FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620530	ProTaqs® IgA FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml

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Cat. No.	Product Name	Source	Clone	Application	Reactivity	Format	Quantity
2090620570	ProTaq [®] IgA FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620820	ProTaq [®] IgAGM FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620830	ProTaq [®] IgAGM FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620870	ProTaq [®] IgAGM FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620620	ProTaq [®] IgG FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620630	ProTaq [®] IgG FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620670	ProTaq [®] IgG FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620720	ProTaq [®] IgM FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620730	ProTaq [®] IgM FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620770	ProTaq [®] IgM FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090620920	ProTaq [®] Kappa FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090620930	ProTaq [®] Kappa FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090620970	ProTaq [®] Kappa FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090621020	ProTaq [®] Lambda FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090621030	ProTaq [®] Lambda FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090621070	ProTaq [®] Lambda FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
2090621120	ProTaq [®] Albumin FITC	Rabbit	polyclonal	IF	Hu	Concentrate	2 ml
2090621130	ProTaq [®] Albumin FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	3 ml
2090621170	ProTaq [®] Albumin FITC	Rabbit	polyclonal	IF	Hu	Ready-to-use	7 ml
3-CO218-08	Complement 4d - FITC	Mouse	QM1	IF	Hu	Concentrate	2 ml
3-CO218-10	Complement 4d - FITC	Mouse	QM1	IF	Hu	Ready-to-use	3 ml
3-CO218-13	Complement 4d - FITC	Mouse	QM1	IF	Hu	Ready-to-use	7 ml

Errors and misprints excepted. If you need help with the catalog number, just ask our customer service team.

* reported as working on; ** only special packing sizes available; If you want to place an order, please follow our instructions on page 9.

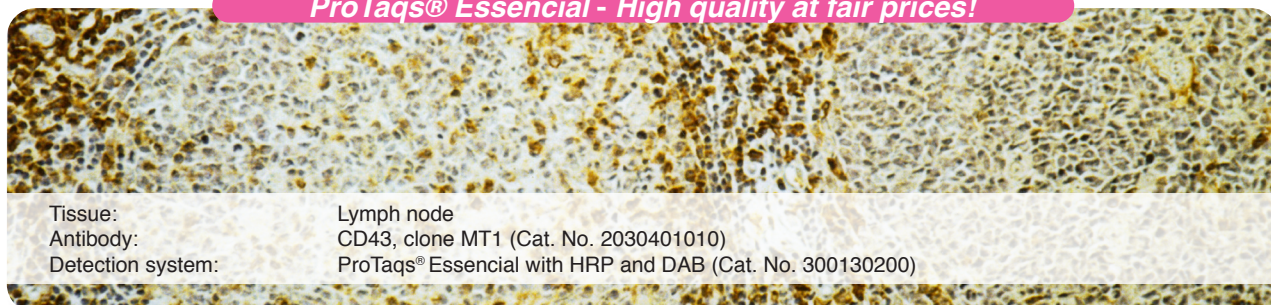
2. Immunohistochemical Detection Systems

quartett offers a wide range of immunohistochemical detection systems designed for your specific needs in routine as well as in research laboratories. It can be chosen between alkaline phosphatase (AP) or horseradish peroxidase (HRP) as enzymes and between a broad range of different chromogens. All detection systems find application in manual and automated staining systems. The kits contain all necessary reagents you will need for an appropriate and brilliant staining result.

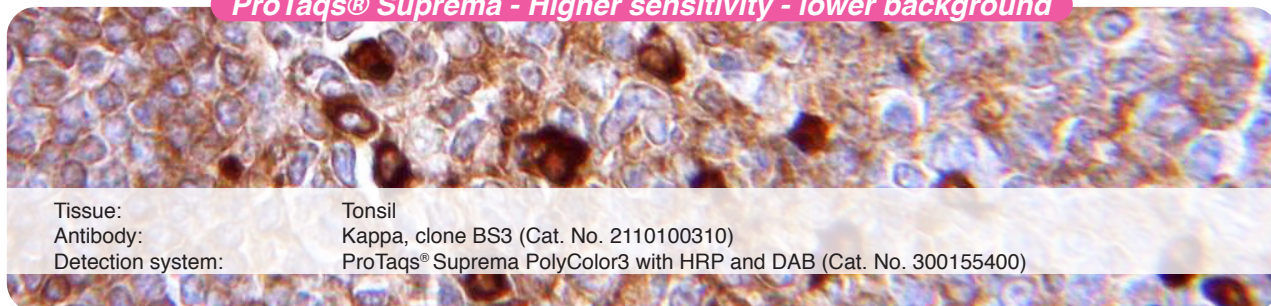
Our product portfolio includes six types of detection systems:

- ▶ **ProTaq[®] Essencial** is based on the Labeled Streptavidin / Biotin (LSAB) method.
- ▶ **ProTaq[®] Suprema PolyColor2** is a 2-step polymer based ultra sensitive detection system without biotin.
- ▶ **ProTaq[®] Suprema PolyColor3** is a 3-step polymer based ultra sensitive detection system without biotin. Sensitivity is increased due to antibody enhancer.
- ▶ **ProTaq[®] Suprema Double Stain** kits are polymer based systems for the detection of two antigens simultaneously.
- ▶ **ProTaq[®] Suprema Triple Stain** kits are polymer based systems for the detection of three antigens simultaneously.

ProTaq[®] Essencial - High quality at fair prices!



ProTaq[®] Suprema - Higher sensitivity - lower background



Advantages **quartett** is offering to its customers:

- ▶ Each single reagent can be re-ordered separately.
- ▶ Superior quality at very competitive costs.
- ▶ Reliability due to German production.

2.1 Streptavidin / Biotin Systems - ProTaq[®] Essencial

ProTaq[®] Essencial kits are based on the Labeled Streptavidin / Biotin (LSAB) method. All systems are performed for the detection of primary antibodies obtained from mouse and rabbit on frozen and paraffin tissues. All reagents in these kits are prepared for working perfectly together. ProTaq[®] Essencial kits are the best solution, if you are looking for a detection system with optimal result / price ratio.

Cat. No.	Product Name	Method	Enzyme	Chromogen*	Reactivity	Format	Quantity
300140300	ProTaq [®] Essencial	LSAB	AP	Fast Red	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300140305	ProTaq [®] Essencial	LSAB	AP	Fast Red	mouse, rabbit	Ready-to-use	500 Tests / 50 ml
300140310	ProTaq [®] Essencial	LSAB	AP	Fast Red	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300140200	ProTaq [®] Essencial	LSAB	AP	Permanent Red	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300140205	ProTaq [®] Essencial	LSAB	AP	Permanent Red	mouse, rabbit	Ready-to-use	500 Tests / 50 ml
300140210	ProTaq [®] Essencial	LSAB	AP	Permanent Red	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300140100	ProTaq [®] Essencial	LSAB	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300140105	ProTaq [®] Essencial	LSAB	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	500 Tests / 50 ml
300140110	ProTaq [®] Essencial	LSAB	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300120300	ProTaq [®] Essencial	LSAB	HRP	AEC	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300120305	ProTaq [®] Essencial	LSAB	HRP	AEC	mouse, rabbit	Ready-to-use	500 Tests / 50 ml
300120310	ProTaq [®] Essencial	LSAB	HRP	AEC	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300130200	ProTaq [®] Essencial	LSAB	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300130205	ProTaq [®] Essencial	LSAB	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	500 Tests / 50 ml
300130210	ProTaq [®] Essencial	LSAB	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml

*recommendation; not included

2.2 Polymer Systems - ProTaq[®] Suprema PolyColor

ProTaq[®] Suprema PolyColor kits are polymer based ultra sensitive detection systems. Containing no biotin the kits are unaffected by endogenous biotin resulting in lower background staining. The systems are faster and more sensitive than it can be reached by any LSAB method. This method allows the detection of two or three different antigens simultaneously, and it is cost effective due to the possibility of higher primary antibody dilutions. All systems are performed for the detection of primary antibodies obtained from mouse, rabbit, rat or goat on frozen and paraffin tissues. All reagents in these kits are prepared for working perfectly together. ProTaq[®] Suprema kits are available with enhancer (**ProTaq[®] Suprema PolyColor3**) as well as without enhancer (**ProTaq[®] Suprema PolyColor2**).

Cat. No.	Product Name	Method	Enzyme	Chromogen*	Reactivity	Format	Quantity
300170100	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	mouse	Ready-to-use	150 Tests / 15 ml
300170110	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	mouse	Ready-to-use	1000 Tests / 100 ml
300170200	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	rabbit	Ready-to-use	150 Tests / 15 ml
300170210	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	rabbit	Ready-to-use	1000 Tests / 100 ml
300170300	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	goat	Ready-to-use	150 Tests / 15 ml
300170310	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	goat	Ready-to-use	1000 Tests / 100 ml
300170400	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300170410	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300170500	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	rat	Ready-to-use	150 Tests / 15 ml
300170510	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Fast Red	rat	Ready-to-use	1000 Tests / 100 ml
300180100	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	mouse	Ready-to-use	150 Tests / 15 ml
300180110	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	mouse	Ready-to-use	1000 Tests / 100 ml
300180200	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	rabbit	Ready-to-use	150 Tests / 15 ml
300180210	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	rabbit	Ready-to-use	1000 Tests / 100 ml
300180300	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	goat	Ready-to-use	150 Tests / 15 ml
300180310	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	goat	Ready-to-use	1000 Tests / 100 ml
300180400	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300180410	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml

Cat. No.	Product Name	Method	Enzyme	Chromogen*	Reactivity	Format	Quantity
300180500	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	rat	Ready-to-use	150 Tests / 15 ml
300180510	ProTaq [®] Suprema PolyColor3	Polymer system	AP	Permanent Red	rat	Ready-to-use	1000 Tests / 100 ml
300190100	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	mouse	Ready-to-use	150 Tests / 15 ml
300190110	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	mouse	Ready-to-use	1000 Tests / 100 ml
300190200	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	rabbit	Ready-to-use	150 Tests / 15 ml
300190210	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	rabbit	Ready-to-use	1000 Tests / 100 ml
300190300	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	goat	Ready-to-use	150 Tests / 15 ml
300190310	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	goat	Ready-to-use	1000 Tests / 100 ml
300190400	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300190410	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300190500	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	rat	Ready-to-use	150 Tests / 15 ml
300190510	ProTaq [®] Suprema PolyColor3	Polymer system	AP	BCIP/NBT	rat	Ready-to-use	1000 Tests / 100 ml
300160100	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	mouse	Ready-to-use	150 Tests / 15 ml
300160110	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	mouse	Ready-to-use	1000 Tests / 100 ml
300160200	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	rabbit	Ready-to-use	150 Tests / 15 ml
300160210	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	rabbit	Ready-to-use	1000 Tests / 100 ml
300160300	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	goat	Ready-to-use	150 Tests / 15 ml
300160310	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	goat	Ready-to-use	1000 Tests / 100 ml
300160400	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300160410	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300160500	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	rat	Ready-to-use	150 Tests / 15 ml
300160510	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	AEC	rat	Ready-to-use	1000 Tests / 100 ml
300155100	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	mouse	Ready-to-use	150 Tests / 15 ml
300155110	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	mouse	Ready-to-use	1000 Tests / 100 ml
300155200	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	rabbit	Ready-to-use	150 Tests / 15 ml
300155210	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	rabbit	Ready-to-use	1000 Tests / 100 ml
300155300	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	goat	Ready-to-use	150 Tests / 15 ml
300155310	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	goat	Ready-to-use	1000 Tests / 100 ml
300155400	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300155410	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300155500	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	rat	Ready-to-use	150 Tests / 15 ml
300155510	ProTaq [®] Suprema PolyColor3	Polymer system	HRP	DAB (liquid)	rat	Ready-to-use	1000 Tests / 100 ml
300170100	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	mouse	Ready-to-use	150 Tests / 15 ml
300170110	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	mouse	Ready-to-use	1000 Tests / 100 ml
300270200	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	rabbit	Ready-to-use	150 Tests / 15 ml
300270210	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	rabbit	Ready-to-use	1000 Tests / 100 ml
300270300	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	goat	Ready-to-use	150 Tests / 15 ml
300270310	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	goat	Ready-to-use	1000 Tests / 100 ml
300270400	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300270410	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300270500	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	rat	Ready-to-use	150 Tests / 15 ml
300270510	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Fast Red	rat	Ready-to-use	1000 Tests / 100 ml
300280100	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	mouse	Ready-to-use	150 Tests / 15 ml
300280110	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	mouse	Ready-to-use	1000 Tests / 100 ml
300280200	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	rabbit	Ready-to-use	150 Tests / 15 ml
300280210	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	rabbit	Ready-to-use	1000 Tests / 100 ml
300280300	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	goat	Ready-to-use	150 Tests / 15 ml
300280310	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	goat	Ready-to-use	1000 Tests / 100 ml
300280400	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300280410	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300280500	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	rat	Ready-to-use	150 Tests / 15 ml
300280510	ProTaq [®] Suprema PolyColor2	Polymer system	AP	Permanent Red	rat	Ready-to-use	1000 Tests / 100 ml
300290100	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	mouse	Ready-to-use	150 Tests / 15 ml
300290110	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	mouse	Ready-to-use	1000 Tests / 100 ml

Cat. No.	Product Name	Method	Enzyme	Chromogen*	Reactivity	Format	Quantity
300290200	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	rabbit	Ready-to-use	150 Tests / 15 ml
300290210	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	rabbit	Ready-to-use	1000 Tests / 100 ml
300290300	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	goat	Ready-to-use	150 Tests / 15 ml
300290310	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	goat	Ready-to-use	1000 Tests / 100 ml
300290400	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300290410	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300290500	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	rat	Ready-to-use	150 Tests / 15 ml
300290510	ProTaq [®] Suprema PolyColor2	Polymer system	AP	BCIP/NBT	rat	Ready-to-use	1000 Tests / 100 ml
300260100	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	mouse	Ready-to-use	150 Tests / 15 ml
300260110	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	mouse	Ready-to-use	1000 Tests / 100 ml
300260200	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	rabbit	Ready-to-use	150 Tests / 15 ml
300260210	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	rabbit	Ready-to-use	1000 Tests / 100 ml
300260300	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	goat	Ready-to-use	150 Tests / 15 ml
300260310	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	goat	Ready-to-use	1000 Tests / 100 ml
300260400	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300260410	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300260500	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	rat	Ready-to-use	150 Tests / 15 ml
300260510	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	AEC	rat	Ready-to-use	1000 Tests / 100 ml
300255100	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	mouse	Ready-to-use	150 Tests / 15 ml
300255110	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	mouse	Ready-to-use	1000 Tests / 100 ml
300255200	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	rabbit	Ready-to-use	150 Tests / 15 ml
300255210	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	rabbit	Ready-to-use	1000 Tests / 100 ml
300255300	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	goat	Ready-to-use	150 Tests / 15 ml
300255310	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	goat	Ready-to-use	1000 Tests / 100 ml
300255400	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	150 Tests / 15 ml
300255410	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	mouse, rabbit	Ready-to-use	1000 Tests / 100 ml
300255500	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	rat	Ready-to-use	150 Tests / 15 ml
300255510	ProTaq [®] Suprema PolyColor2	Polymer system	HRP	DAB (liquid)	rat	Ready-to-use	1000 Tests / 100 ml

*recommendation; not included

2.3 Polymer Systems - ProTaq[®] Suprema DoubleStain

ProTaq[®] Suprema DoubleStain kits are polymer based ultra sensitive systems for the detection of two different antigens on one tissue slide. A further advantage next to reduction of preparation time is the possibility to review the co-expression of two target proteins on the same tissue.

Containing no biotin the kits are unaffected by endogenous biotin resulting in lower background staining. All systems are performed for the detection of primary antibodies obtained from mouse, rabbit, rat or goat on human frozen and paraffin tissues. **quartett** offers chromogens providing the following color combinations:

- ▶ ProTaq[®] DAB (brown) & ProTaq[®] Permanent Red (red)
- ▶ ProTaq[®] BCIP/NBT (violet) & ProTaq[®] AEC (red)
- ▶ ProTaq[®] DAB (brown) & ProTaq[®] Fast Red (red)

Cat. No.	Product Name	Method	Enzyme	Chromogen	Reactivity	Format	Quantity
300500000	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rb	DAB & Permanent Red	mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300500010	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rb	DAB & Permanent Red	mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300500100	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rb	BCIP/NBT & AEC	mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300500110	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rb	BCIP/NBT & AEC	mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300500200	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rb	DAB & Fast Red	mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300500210	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rb	DAB & Fast Red	mouse & rabbit	Ready-to-use	1000 Tests / 100 ml

Cat. No.	Product Name	Method	Enzyme	Chromogen	Reactivity	Format	Quantity
300500300	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Ms	DAB & Permanent Red	mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300500310	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Ms	DAB & Permanent Red	mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300500400	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Ms	BCIP/NBT & AEC	mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300500410	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Ms	BCIP/NBT & AEC	mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300500500	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Ms	DAB & Fast Red	mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300500510	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Ms	DAB & Fast Red	mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300501000	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Ms	DAB & Permanent Red	2 mouse	Ready-to-use	70 Tests / 7 ml
300501010	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Ms	DAB & Permanent Red	2 mouse	Ready-to-use	1000 Tests / 100 ml
300501100	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Ms	BCIP/NBT & AEC	2 mouse	Ready-to-use	70 Tests / 7 ml
300501110	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Ms	BCIP/NBT & AEC	2 mouse	Ready-to-use	1000 Tests / 100 ml
300501200	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Ms	DAB & Fast Red	2 mouse	Ready-to-use	70 Tests / 7 ml
300501210	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Ms	DAB & Fast Red	2 mouse	Ready-to-use	1000 Tests / 100 ml
300502000	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Rb	DAB & Permanent Red	2 rabbit	Ready-to-use	70 Tests / 7 ml
300502010	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Rb	DAB & Permanent Red	2 rabbit	Ready-to-use	1000 Tests / 100 ml
300502100	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Rb	BCIP/NBT & AEC	2 rabbit	Ready-to-use	70 Tests / 7 ml
300502110	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Rb	BCIP/NBT & AEC	2 rabbit	Ready-to-use	1000 Tests / 100 ml
300502200	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Rb	DAB & Fast Red	2 rabbit	Ready-to-use	70 Tests / 7 ml
300502210	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Rb & AP-Rb	DAB & Fast Red	2 rabbit	Ready-to-use	1000 Tests / 100 ml
300503000	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rb	DAB & Permanent Red	rabbit & goat	Ready-to-use	70 Tests / 7 ml
300503010	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rb	DAB & Permanent Red	rabbit & goat	Ready-to-use	1000 Tests / 100 ml
300503100	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rb	BCIP/NBT & AEC	rabbit & goat	Ready-to-use	70 Tests / 7 ml
300503110	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rb	BCIP/NBT & AEC	rabbit & goat	Ready-to-use	1000 Tests / 100 ml
300503200	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rb	DAB & Fast Red	rabbit & goat	Ready-to-use	70 Tests / 7 ml
300503210	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rb	DAB & Fast Red	rabbit & goat	Ready-to-use	1000 Tests / 100 ml
300504000	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rt	DAB & Permanent Red	goat & rat	Ready-to-use	70 Tests / 7 ml
300504010	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rt	DAB & Permanent Red	goat & rat	Ready-to-use	1000 Tests / 100 ml
300504100	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rt	BCIP/NBT & AEC	goat & rat	Ready-to-use	70 Tests / 7 ml
300504110	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Gt & AP-Rt	BCIP/NBT & AEC	goat & rat	Ready-to-use	1000 Tests / 100 ml
300505000	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Gt	DAB & Permanent Red	mouse & goat	Ready-to-use	70 Tests / 7 ml
300505010	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Gt	DAB & Permanent Red	mouse & goat	Ready-to-use	1000 Tests / 100 ml
300505100	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Gt	BCIP/NBT & AEC	mouse & goat	Ready-to-use	70 Tests / 7 ml
300505110	ProTaqs® Suprema DoubleStain	Polymer system	HRP-Ms & AP-Gt	BCIP/NBT & AEC	mouse & goat	Ready-to-use	1000 Tests / 100 ml

Cat. No.	Product Name	Method	Enzyme	Chromogen	Reactivity	Format	Quantity
300506000	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rt	DAB & Permanent Red	mouse & rat	Ready-to-use	70 Tests / 7 ml
300506010	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rt	DAB & Permanent Red	mouse & rat	Ready-to-use	1000 Tests / 100 ml
300506100	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rt	BCIP/NBT & AEC	mouse & rat	Ready-to-use	70 Tests / 7 ml
300506110	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Ms & AP-Rt	BCIP/NBT & AEC	mouse & rat	Ready-to-use	1000 Tests / 100 ml
300507000	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Rt & AP-Rb	DAB & Permanent Red	rabbit & rat	Ready-to-use	70 Tests / 7 ml
300507010	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Rt & AP-Rb	DAB & Permanent Red	rabbit & rat	Ready-to-use	1000 Tests / 100 ml
300507100	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Rt & AP-Rb	BCIP/NBT & AEC	rabbit & rat	Ready-to-use	70 Tests / 7 ml
300507110	ProTaq [®] Suprema DoubleStain	Polymer system	HRP-Rt & AP-Rb	BCIP/NBT & AEC	rabbit & rat	Ready-to-use	1000 Tests / 100 ml

2.4 Polymer Systems - ProTaq[®] Suprema TripleStain

ProTaq[®] Suprema TripleStain kits are polymer based ultra sensitive systems for the detection of three different antigens on one tissue slide. A further advantage next to reduction of preparation time is the possibility to review the co-expression of three target proteins on the same tissue.

Containing no biotin the kits are unaffected by endogenous biotin resulting in lower background staining. All systems are performed for the detection of primary antibodies obtained from mouse, rabbit or goat on human frozen and paraffin tissues. **quartett** offers chromogens providing the following color combinations:

- ▶ ProTaq[®] DAB (brown) & ProTaq[®] Permanent Red (red) & ProTaq[®] Green (green)
- ▶ ProTaq[®] DAB (brown) & ProTaq[®] Permanent Red (red) & ProTaq[®] DAB Nickel (black)

Cat. No.	Product Name	Method	Enzyme	Chromogen	Reactivity	Format	Quantity
300700000	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Rb, AP-Ms & HRP-Ms	DAB, Permanent Red & Green	2 mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300700010	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Rb, AP-Ms & HRP-Ms	DAB, Permanent Red & Green	2 mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300700100	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Rb, AP-Ms & HRP-Ms	DAB, Permanent Red & DAB Nickel	2 mouse & rabbit	Ready-to-use	70 Tests / 7 ml
300700110	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Rb, AP-Ms & HRP-Ms	DAB, Permanent Red & DAB Nickel	2 mouse & rabbit	Ready-to-use	1000 Tests / 100 ml
300701000	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Rb	DAB, Permanent Red & Green	2 rabbit & mouse	Ready-to-use	70 Tests / 7 ml
300701010	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Rb	DAB, Permanent Red & Green	2 rabbit & mouse	Ready-to-use	1000 Tests / 100 ml
300701100	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Rb	DAB, Permanent Red & DAB Nickel	2 rabbit & mouse	Ready-to-use	70 Tests / 7 ml
300701110	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Rb	DAB, Permanent Red & DAB Nickel	2 rabbit & mouse	Ready-to-use	1000 Tests / 100 ml
300702000	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Gt	DAB, Permanent Red & Green	mouse, rabbit & goat	Ready-to-use	70 Tests / 7 ml
300702010	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Gt	DAB, Permanent Red & Green	mouse, rabbit & goat	Ready-to-use	1000 Tests / 100 ml
300702100	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Gt	DAB, Permanent Red & DAB Nickel	mouse, rabbit & goat	Ready-to-use	70 Tests / 7 ml
300702110	ProTaq [®] Suprema TripleStain	Polymer system	HRP-Ms, AP-Rb & HRP-Gt	DAB, Permanent Red & DAB Nickel	mouse, rabbit & goat	Ready-to-use	1000 Tests / 100 ml

2.5 Single Components for Immunohistochemical Detection Systems

Of course each single reagent can be re-ordered separately. Don't hesitate to ask, if you need further quantities.



2.5.1 Streptavidin and Enzyme Complexes

Cat. No.	Product Name	Format	Application	Quantity
400105391	ProTaqS® Streptavidin / Alkaline Phosphatase	Ready-to-use	IHC	15 ml
400104491	ProTaqS® Streptavidin / HRP	Ready-to-use	IHC	15 ml
400106991	ProTaqS® Streptavidin / PolyHRP Fast Stain	Ready-to-use	IHC	15 ml

2.5.2 Secondary Antibodies

Cat. No.	Product Name	Source	Format	Application	Reactivity	Quantity
400106291	ProTaqS® Polyclonal Secondary Ab (IgM)	Goat	Ready-to-use	IHC	Ms	15 ml
400104391	ProTaqS® Polyvalent Secondary Ab IgG		Ready-to-use	IHC	Ms, Rb, Gt	15 ml
400107191	ProTaqS® Polyvalent Secondary Ab IgG (Fast Stain)		Ready-to-use	IHC	Ms, Rb, Gt	15 ml
400107491	ProTaqS® Sec Ab IgG+IgM Rabbit anti-Rat / HRP	Rabbit	Ready-to-use	IHC, ELISA, WB	Rt	15 ml
400107791	ProTaqS® Sec Ab IgG Rabbit anti-Sheep / HRP	Rabbit	Ready-to-use	IHC, ELISA, WB	Sh	15 ml
400107991	ProTaqS® Sec Ab IgG Rabbit anti-Mouse / HRP	Rabbit	Ready-to-use	IHC, ELISA, WB	MS	15 ml

2.5.3 Secondary Antibodies for Double Staining Detection Systems

Cat. No.	Product Name	Source	Format	Application	Reactivity	Quantity
2300402630	ProTaqS® anti Rabbit/Biotin conjugated	Goat	Ready-to-use	IB, IHP, IF	Rb	3 ml
2300402730	ProTaqS® anti-Mouse/Biotin conjugated	Goat	Ready-to-use	IB, IHP, IF	Ms	3 ml
2300402430	ProTaqS® Secondary Antibody (-Rabbit; -Mouse/Biotin)	Goat	Ready-to-use	IHP	Ms, Rb	3 ml
2300402130	ProTaqS® Secondary Antibody (-Rabbit/AP; -Mouse/HRP)	Goat	Ready-to-use	IHP	Ms, Rb	3 ml
2300402230	ProTaqS® Serum (Goat)	Goat	Ready-to-use	IB, IHP		3 ml

2.5.4 Chromogens for Alkaline Phosphatase

Cat. No.	Product Name	Format	Application	Staining Result	Quantity
400105801	ProTaq [®] BCIP/NBT	Ready-to-use	IHC	Violet	150 Tests
400105805	ProTaq [®] BCIP/NBT	Ready-to-use	IHC	Violet	500 Tests
400105810	ProTaq [®] BCIP/NBT	Ready-to-use	IHC	Violet	1000 Tests
400105401	ProTaq [®] Fast Red	Chromogen tablet, substrate	IHC	Red	150 Tests
400105405	ProTaq [®] Fast Red	Chromogen tablet, substrate	IHC	Red	500 Tests
400105410	ProTaq [®] Fast Red	Chromogen tablet, substrate	IHC	Red	1000 Tests
400107101	ProTaq [®] Permanent Red	Chromogen, enhancer, substrate	IHC	Red	150 Tests
400107105	ProTaq [®] Permanent Red	Chromogen, enhancer, substrate	IHC	Red	500 Tests
400107110	ProTaq [®] Permanent Red	Chromogen, enhancer, substrate	IHC	Red	1000 Tests
400108901	ProTaq [®] Permanent Red Plus	Chromogen, enhancer, substrate	IHC	Red	150 Tests
400108905	ProTaq [®] Permanent Red Plus	Chromogen, enhancer, substrate	IHC	Red	500 Tests
400108910	ProTaq [®] Permanent Red Plus	Chromogen, enhancer, substrate	IHC	Red	1000 Tests

2.5.5 Chromogens for Horseradish Peroxidase

Cat. No.	Product Name	Format	Application	Staining Result	Quantity
400106601	ProTaq [®] DAB Chromogen (liquid)	Substrate, chromogen, H ₂ O ₂	IHC	Brown	150 Tests
400106605	ProTaq [®] DAB Chromogen (liquid)	Substrate, chromogen, H ₂ O ₂	IHC	Brown	500 Tests
400106610	ProTaq [®] DAB Chromogen (liquid)	Substrate, chromogen, H ₂ O ₂	IHC	Brown	1000 Tests
400104701	ProTaq [®] AEC Chromogen	Buffer, chromogen, H ₂ O ₂	IHC	Red	150 Tests
400104705	ProTaq [®] AEC Chromogen	Buffer, chromogen, H ₂ O ₂	IHC	Red	500 Tests
400104710	ProTaq [®] AEC Chromogen	Buffer, chromogen, H ₂ O ₂	IHC	Red	1000 Tests
400108701	ProTaq [®] DAB Nickel	Substrate, chromogen, H ₂ O ₂ , Nickel solution	IHC	Black	150 Tests
400108705	ProTaq [®] DAB Nickel	Substrate, chromogen, H ₂ O ₂ , Nickel solution	IHC	Black	500 Tests
400108710	ProTaq [®] DAB Nickel	Substrate, chromogen, H ₂ O ₂ , Nickel solution	IHC	Black	1000 Tests
400108801	ProTaq [®] Green	Ready-to-use	IHC	Green	150 Tests
400108805	ProTaq [®] Green	Ready-to-use	IHC	Green	500 Tests
400108810	ProTaq [®] Green	Ready-to-use	IHC	Green	1000 Tests
400105591	ProTaq [®] DAB Enhancer	Ready-to-use	IHC		7 ml

2.5.6 Sera

Cat. No.	Product Name	Source	Format	Application	Quantity
2401400895	ProTaq [®] Serum (Bovine)	Bovine	Serum	EIA, WB, IHC(p), IF	50 ml
2401400995	ProTaq [®] Serum (Chicken)	Chicken	Serum	EIA, WB, IHC(p), IF	10 ml
2401401095	ProTaq [®] Serum (Donkey)	Donkey	Serum	EIA, WB, IHC(p), IF	50 ml
2401400695	ProTaq [®] Serum (Goat)	Goat	Serum	EIA, WB, IHC(p), IF	50 ml
2401400795	ProTaq [®] Serum (Guinea pig)	Guinea pig	Serum	EIA, WB, IHC(p), IF	25 ml
2401401191	ProTaq [®] Serum (Horse)	Horse	Serum	EIA, WB, IHC(p), IF	1 ml
2401400250	ProTaq [®] Serum (Mouse)	Mouse	Serum	EIA, WB, IHC(p), IF	5 ml
2401400395	ProTaq [®] Serum (Ovine)	Sheep	Serum	EIA, WB, IHC(p), IF	50 ml
2401400495	ProTaq [®] Serum (Porcine)	Porcine	Serum	EIA, WB, IHC(p), IF	50 ml
2401400195	ProTaq [®] Serum (Rabbit)	Rabbit	Serum	EIA, WB, IHC(p), IF	50 ml
2401400595	ProTaq [®] Serum (Rat)	Rat	Serum	EIA, WB, IHC(p), IF	50 ml

2.5.7 Chromogen Dilution Solutions

Cat. No.	Product Name	Synonym	Deliveries / Stock solution	Working solution	Format	pH	Concentration in working solution	Application
400104991	Acetate Buffer for AEC Chromogen	Acetate Buffer	6 x 15 ml (33x)	6 x 500 ml	Concentrate	5.0	0.1 M Acetate	IHC, IH, IC
Description: Dilution of chromogen AEC, coating of ELISA plates.								
400106001	Dilution Buffer for Alkaline Phosphatase Conjugates	AP Buffer	1 l (5x)	5 l	Concentrate	9.3	0.05 M TRIS, 0.03 M Magnesium Chloride	IHC, IH, IC
Description: Buffering of different conjugates of alkaline phosphatase.								
400106002	Dilution Buffer for Alkaline Phosphatase Conjugates	AP Buffer	6 x 20 ml (5x)	6 x 100 ml	Concentrate	9.3	0.05 M TRIS, 0.03 M Magnesium Chloride	IHC, IH, IC
Description: Buffering of different conjugates of alkaline phosphatase.								
402000591	TRIS HCl Buffer for Fast Red	Fast Red Diluent	6 x 15 ml	6 x 15 ml	Ready-to-use	8.2	0.1 M TRIS	IHC, IH, IC
Description: Dilution and dissolving of Fast Red tablets.								
402000991	TRIS HCl Buffer for DAB Chromogen	DAB Diluent	6 x 15 ml (50x)	6 x 750 ml	Concentrate	7.5	0.06 M TRIS, 40 ppm Thimerosal Enhancer	IHC, IH, IC
Description: Dilution of chromogen DAB.								

3. Reagents for Immunohistochemistry / Histology / Cytology

quartett offers a variety of reagents for immunohistochemical, histological and cytological applications.

Don't hesitate to ask, if you need a product or packing size not listed. Our laboratory team will do anything possible to meet your specific requirements.

Our product portfolio includes:

- ▶ Buffer
- ▶ Antigen retrieval solutions
- ▶ Antibody diluents
- ▶ Blocking reagents
- ▶ Mounting media
- ▶ Fixatives
- ▶ Decalcifier
- ▶ Clearing Agents ***ProTaq[®] Clear - Xylene Alternative***



3.1 Buffer

quartett offers all popular buffers for immunohistochemical, histological, cytological and biochemical applications enabling time saving procedures during usual laboratory routine. We guarantee highest quality of all ingredients and precision of the pre-set pH value.

The buffers are available in different formats:

- ▶ **Ready-to-use buffers** guarantee the largest security and easiness during usage without any requirements to the laboratory capacity.
- ▶ **Concentrated buffers** are space-saving and have a longer shelf-life. Concentrates have to be diluted with aqua dest. and can be used directly afterwards.

Have not found the buffer you are looking for, or wishing a different package size? Please get in contact with us. We are pleased to realize your request.



3.1.1 Citrate Buffer / Citrate EDTA Buffer / EDTA Buffer

Citrate buffer is commonly used in immunohistology for epitope demasking procedures. These procedures are used to reverse the loss of antigenicity of epitopes that may appear while working with formalin-fixed paraffin embedded tissues. Formalin causes the formation of protein cross-links resulting in false negative or weak staining. It is the most widespread demasking solution for antibodies. We offer citrate buffer with different pH values ranging from pH 6.0, which is commonly used for antigen retrieval, to pH 7.5 with additional **EDTA** to enhance decalcification of tissue. In some applications EDTA alone is used for epitope demasking. Citrate buffer can also be used as an eluent for affinity chromatography, but also for tissue culture.

All buffers and concentrates should be stored at 2 - 8 °C.

Cat. No.	Product Name	Synonym	Deliveries / Stock solution	Working solution	Format	pH	Concentration in working solution	Application
400300692	Citrate Buffer	Citric Acid	6 x 20 ml (50x)	6 x 1 l	Concentrate	6.0	0.01 M Citrate	IHC, IH, IC
400300699	Citrate Buffer	Citric Acid	500 ml (50x)	25 l	Concentrate	6.0	0.01 M Citrate	IHC, IH, IC
400300499	Citrate Buffer	Citric Acid	500 ml (10x)	5 l	Concentrate	6.1	0.01 M Citrate	IHC, IH, IC
400500201	Citrate EDTA Buffer	Citric Acid Ethylenediaminetetraacetic Acid	1 l	1 l	Ready-to-use	7.5	0.6 M Citrate, 0.2 M EDTA	IHC, IH, IC
400500205	Citrate EDTA Buffer	Citric Acid Ethylenediaminetetraacetic Acid	5 l	5 l	Ready-to-use	7.5	0.6 M Citrate, 0.2 M EDTA	IHC, IH, IC
400500192	EDTA Buffer	Ethylenediaminetetraacetic Acid	6 x 20 ml (50x)	6 x 1 l	Concentrate	8.0	1 mM EDTA	IHC, IH, IC
400500392	EDTA Buffer	Ethylenediaminetetraacetic Acid	6 x 20 ml (10x)	6 x 200 ml	Concentrate	8.0	1 mM EDTA	IHC, IH, IC
400500399	EDTA Buffer	Ethylenediaminetetraacetic Acid	500 ml (10x)	5 l	Concentrate	8.0	1 mM EDTA	IHC, IH, IC

3.1.2 Phosphate Buffered Saline / PBS

Phosphate buffered saline (PBS) is a commonly used buffer for biological and immunohistochemical applications. PBS is used for all processes that need a salt concentration close to physiological condition, adapted to histological or cell culture techniques required pH value. PBS finds mainly application as a washing buffer in histology, serology, cell culture, biochemical assays (ELISA, RIA) and for protein purification. In many cases this function can be enhanced by adding detergents (e.g. Tween20). Due to detergents it can be used as a background reducing agent for immunoassays. Phosphate buffer should not be used in enzyme assays where competition for phosphate groups, or complex formation with a metal ion is essential for the enzyme activation.

All buffers and concentrates should be stored at 2 - 8 °C.

Cat. No.	Product Name	Synonym	Deliveries / Stock solution	Working solution	Format	pH	Concentration in working solution	Application
401601192	PBS	Phosphate Buffered Saline	6 x 20 ml (25x)	6 x 500 ml	Concentrate	7.6	0.025 M Phosphate, 0.05 M Sodium Chloride	IHC, IH, IC
401601199	PBS	Phosphate Buffered Saline	500 ml (25x)	12.5 l	Concentrate	7.6	0.025 M Phosphate, 0.05 M Sodium Chloride	IHC, IH, IC
401603892	PBS	Phosphate Buffered Saline	6 x 20 ml (10x)	6 x 200 ml	Concentrate	7.4	0.05 M Phosphate, 0.1 M Sodium Chloride	IHC, IH, IC
401603899	PBS	Phosphate Buffered Saline	500 ml (10x)	5 l	Concentrate	7.4	0.05 M Phosphate, 0.1 M Sodium Chloride	IHC, IH, IC
401600191	PBS	Phosphate Buffered Saline	6 x 15 ml (33x)	6 x 500 ml	Concentrate	7.4	0.012 M Sodium Phosphate, 0.075 M Sodium Chloride	IHC, IH, IC
401601092	PBS with 0.05 % Tween20	Phosphate Buffered Saline	6 x 20 ml (20x)	6 x 400 ml	Concentrate	7.6	0.012 M Phosphate, 0.15 M Sodium Chloride, 0.05% Tween20	IHC, IH, IC
401601099	PBS with 0.05 % Tween20	Phosphate Buffered Saline	500 ml (20x)	10 l	Concentrate	7.6	0.012 M Phosphate, 0.15 M Sodium Chloride, 0.05% Tween20	IHC, IH, IC
401600492	Phosphate Buffer	Phosphate Buffer	6 x 20 ml (50x)	6 x 1 l	Concentrate	7.4	0.017 M Phosphate	IHC, IH, IC
401600499	Phosphate Buffer	Phosphate Buffer	500 ml (50x)	25 l	Concentrate	7.4	0.017 M Phosphate	IHC, IH, IC
401600501	Phosphate Buffer by Soerensen	Soerensen Buffer	1 l	1 l	Ready-to-use	7.4	0.1 M Phosphate	IHC, IH, IC
401600505	Phosphate Buffer by Soerensen	Soerensen Buffer	5 l	5 l	Ready-to-use	7.4	0.1 M Phosphate	IHC, IH, IC
401600520	Phosphate Buffer by Soerensen	Soerensen Buffer	20 l	20 l	Ready-to-use	7.4	0.1 M Phosphate	IHC, IH, IC

3.1.3 TRIS Buffered Saline / TBS

TRIS (Tris(hydroxymethyl)aminomethane) is an organic compound that is widely used as a component of buffer solutions. **TRIS buffered saline (TBS)** has many applications because it is isotonic and non-toxic. It is used as diluent and wash buffer in ELISA, Western blotting and general immunoassay procedures. In immunohistochemistry it is used for reducing high background staining or if alkaline phosphatase conjugated antibodies are used. TBS finds commonly application in dilution of secondary antibodies or streptavidin-AP conjugates. Additives, such as Tween20, enable additional functions. **TRIS-HCl buffer** is used for specific cases of immunohistochemical staining and to prepare TBS buffers.

All buffers and concentrates should be stored at 2 - 8 °C.

Cat. No.	Product Name	Synonym	Deliveries / Stock solution	Working solution	Format	pH	Concentration in working solution	Application
402000192	TBS	TRIS Buffered Saline	6 x 20 ml (50x)	6 x 1 l	Concentrate	7.6	0.03 M TRIS, 0.06 M Sodium Chloride	IHC, IH, IC
402000199	TBS	TRIS Buffered Saline	500 ml (50x)	25 l	Concentrate	7.6	0.03 M TRIS, 0.06 M Sodium Chloride	IHC, IH, IC
402002392	TBS	TRIS Buffered Saline	6 x 20 ml (25x)	6 x 500 ml	Concentrate	7.4	0.05 M TRIS, 0.15 M Sodium Chloride	IHC, IH, IC
402002399	TBS	TRIS Buffered Saline	2 x 500 ml (25x)	2 x 12.5 l	Concentrate	7.4	0.05 M TRIS, 0.15 M Sodium Chloride	IHC, IH, IC
402002192	TBS with 0.05 % Tween20	TRIS Buffered Saline	6 x 20 ml (40x)	6 x 800 ml	Concentrate	7.4	0.05 M TRIS, 0.07 M Sodium Chloride, 0.05 % Tween20	IHC, IH, IC
402002199	TBS with 0.05 % Tween20	TRIS Buffered Saline	500 ml (40x)	20 l	Concentrate	7.4	0.05 M TRIS, 0.07 M Sodium Chloride, 0.05 % Tween20	IHC, IH, IC
402000492	TBS with 0.04 % Tween20	TRIS Buffered Saline	6 x 20 ml (50x)	6 x 1 l	Concentrate	7.6	0.03 M TRIS, 0.06 M Sodium Chloride, 0.04 % Tween20	IHC, IH, IC
402000499	TBS with 0.04 % Tween20	TRIS Buffered Saline	500 ml (50x)	25 l	Concentrate	7.6	0.03 M TRIS, 0.06 M Sodium Chloride, 0.04 % Tween20	IHC, IH, IC
402000720	TRIS HCl Buffer	TRIS Hydrochloride Buffer	20 l	20 l	Ready-to-use	7.6	0.5 M TRIS	IHC, IH, IC
402000701	TRIS HCl Buffer	TRIS Hydrochloride Buffer	1 l	1 l	Ready-to-use	7.6	0.5 M TRIS	IHC, IH, IC
402002201	TRIS Washbuffer (40x) for automated stainer		1 l (40x)	40 l	Concentrate	7.4	0.05 M TRIS/TRIS-HCl, 0.07 M Sodium Chloride, 0.05 % Tween20	IHC, IH, IC, ISH, IB, ELISA
402002205	TRIS Washbuffer (40x) for automated stainer		5 l (40x)	200 l	Concentrate	7.4	0.05 M TRIS/TRIS-HCl, 0.07 M Sodium Chloride, 0.05 % Tween20	IHC, IH, IC, ISH, IB, ELISA

3.1.4 TRIS EDTA Citrate Buffer

TRIS (Tris(hydroxymethyl)aminomethane) is an organic compound that is widely used as a component of buffer solutions. **TRIS EDTA Citrate buffer (TEC buffer)** are commonly used in epitope demasking procedures. These procedures are used to reverse the loss of antigenicity of epitopes that may appear while working with formalin-fixed paraffin embedded tissues. Formalin causes the formation of protein cross-links resulting in false negative or weak staining.

All buffers and concentrates should be stored at 2 - 8 °C.

Cat. No.	Product Name	Synonym	Deliveries / Stock solution	Working solution	Format	pH	Concentration in working solution	Application
402001192	TRIS EDTA Citrate Buffer	TEC Buffer	6 x 20 ml (50x)	6 x 1 l	Concentrate	7.8	4 mM TRIS, 0.7 mM EDTA, 0.8 mM citrate	IHC, IH, IC
402001199	TRIS EDTA Citrate Buffer	TEC Buffer	500 ml (50x)	25 l	Concentrate	7.8	4 mM TRIS, 0.7 mM EDTA, 0.8 mM citrate	IHC, IH, IC

3.1.5 Buffer for Electrophoresis

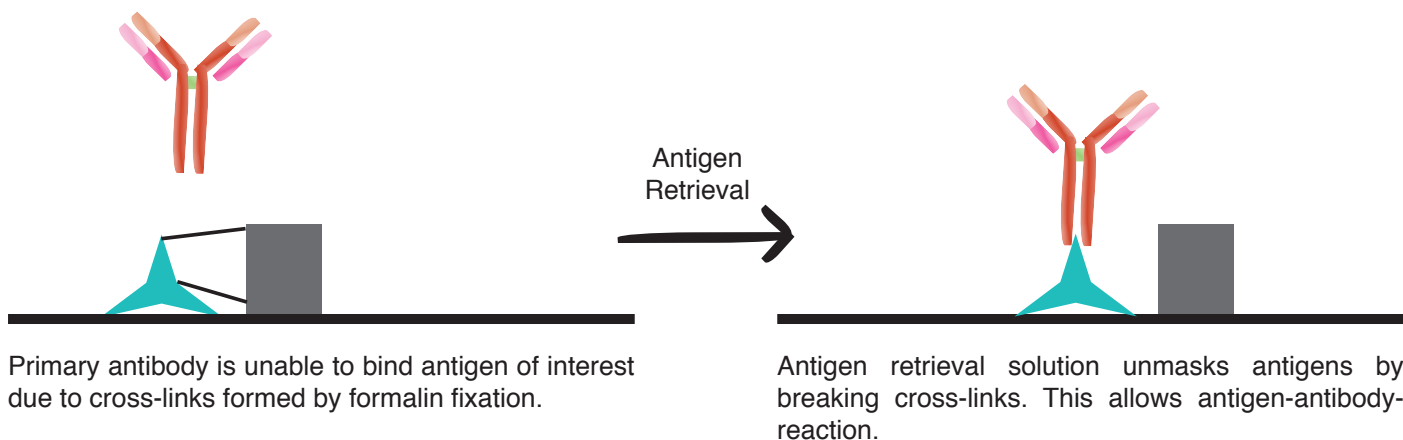
Following products give a selection of buffers used in electrophoresis to separate DNA fragments or proteins.

TBE buffer (TRIS Borate EDTA buffer) is the most chosen buffer for DNA and RNA polyacrylamide gel electrophoresis or for DNA automated sequencing gel. It can be used with non-denaturing or denaturing gels. TBE finds also application in agarose gel but is not recommended for preparative gels for recovery of nucleic acids as it has strong inhibition effects on many enzymes.

Cat. No.	Product Name	Synonym	Deliveries / Stock solution	Working solution	Format	pH	Concentration in working solution
402002899	TBE Buffer	TRIS Borate EDTA Buffer	500 ml (10x)	2.5 l	Concentrate	8.3	0.089 M TRIS, 0.089 M Borate, 0.02 M EDTA

3.2 Antigen Retrieval

The demonstration of antigens in FFPE tissue sections can be improved by pretreatment with antigen retrieval solutions. These reagents break protein cross-links formed by formalin fixation and thereby uncover hidden antigenic sites / epitopes. Antigen retrieval is not needed for immunostaining of fresh frozen sections, because it is to break the cross-links formed by formalin fixation. Two commonly used techniques exist: Heat Induced Epitope Retrieval (HIER) and Proteolytic Induced Epitope Retrieval (PIER).



Heat Induced Epitope Retrieval (HIER) requires heating devices, such as microwave, pressure cooker, steamer or water bath. Tissue Float Bath (Cat. No. 990100710 or 990100720) is suitable for HIER (see chapter 4.2.). Key factors to consider are:

1. Temperature of retrieval solution ~ 95 °C
2. Incubation time > 10 minutes, usually ~ 20 minutes
3. Choice of pH value.

Cat. No.	Product Name	Method	Deliveries / Stock solution	Working solution	Format	Main Component	pH	Application
401602092	ProTaq [®] I Antigen Enhancer	HIER	6 x 20 ml (50x)	6 x 1 l	Concentrate	Citric Acid	6.0	IHC
401602392	ProTaq [®] IV Antigen Enhancer	HIER	6 x 20 ml (50x)	6 x 1 l	Concentrate	TRIS	9.0	IHC

Proteolytic Induced Epitope Retrieval (PIER) uses enzyme digestion. Key factors to consider are:

1. Concentration of enzyme ~ 0.05 - 0.1 %
2. Incubation time > 5 minutes, usually 10 - 15 minutes
3. Incubation temperature usually 37 °C.

Cat. No.	Product Name	Method	Deliveries / Stock solution	Working solution	Format	Main Component	Application
401603497	ProTaq [®] Pronase Digest	PIER	250 ml	250 ml	Ready-to-use	Pronase, TBS	IHC

3.3 Antibody Diluents

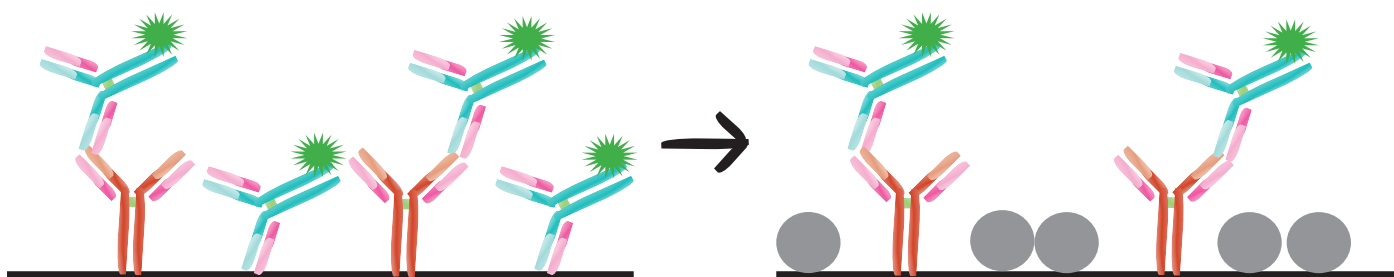
quartett's all-rounder for immunohistochemical applications is **ProTaq[®] Antibody Diluent for IHC** to dilute primary antibody concentrates. The ready-to-use product includes a background reducing agent assisting to prevent non-specific binding and to reduce background staining. The green colored solution enables better distinction between diluted and undiluted antibodies. Main components are: TRIS, TRIS-HCl, < 0.1 % sodium azide, sera as well as a green dye.

Please see below our antibody diluents with different features suitable for various applications, such as IHC, ELISA and Western Blot.

Cat. No.	Product Name	Deliveries / Stock solution	Working solution	Format	pH	Application
400100290	ProTaq [®] Antibody Diluent for IHC	200 ml	200 ml	Ready-to-use	7.4	IHC
400100295	ProTaq [®] Antibody Diluent for IHC	500 ml (4 x 125 ml)	500 ml (4 x 125 ml)	Ready-to-use	7.4	IHC
Description: Antibody diluent for IHC is developed for dilution of primary antibodies in immunohistochemical applications. The product includes a background reducing agent assisting to prevent non-specific binding and to reduce background staining. Green colored solution enables better distinction between diluted and undiluted antibodies. Main components are: TRIS, TRIS-HCl, < 0.1 % sodium azide, regular sera, green dye.						
400108191	ProTaq [®] Antibody Diluent Collagen	14 ml (14x)	196 ml	Concentrate	7.4	IHC, WB, ELISA
Description: Antibody diluent specially developed for dilution of primary antibodies against collagen. The main components are: TRIS, Thimerosal.						

3.4 Blocking Reagents

Blocking reagents are used in various applications to prevent non-specific bindings resulting in decreased background.



Non-specific antibody interactions lead to high background staining.

Blocking of unbound sites is necessary to prevent non-specific binding of the antibodies.

Cat. No.	Product Name	Format	Application	Quantity
400105991	ProTaq [®] Biotin Blocking	Ready-to-use	IHC	15 ml
401603191	ProTaq [®] FITC Protein Blocking	Ready-to-use	IHC, IF	10 ml
400104695	ProTaq [®] Protein Blocking	Ready-to-use	IHC	50 ml

3.5 Mounting Media

Mounting media are required to prepare permanent slides. The correct choice of an appropriate mounting medium is essential. **quartett** offers a broad range of mounting media. These are categorized in water-soluble and water-insoluble media, as well as in media for fluorescence techniques, immunohistochemical or cytological applications.

To emphasize is our resinous mounting medium **ProTaq[®] PARAmount without xylene or toluene** that works perfectly in combination with our xylene alternative ProTaq[®] Clear (see chapter 3.10.).

Cat. No.	Product Name	Format	Application	Quantity
401603095	ProTaq [®] MountFluor	Ready-to-use	IH, IF	50 ml
401603099	ProTaq [®] MountFluor	Ready-to-use	IH, IF	500 ml
Description: Aqueous mounting medium for fluorescence techniques.				
401603391	ProTaq [®] MountFluor Anti Fading	Ready-to-use	IH, IF	15 ml
Description: This product was especially designed to minimize deterioration in fluorescence quality of fluorescence samples. It improves working procedures in research and routine, on the basis of an extended storage period for the examination of those probes. ProTaq [®] MountFluor Anti Fading can be easily and safely used like all other products of the ProTaq [®] product line. Greatest advantage towards other mounting media is the long term fluorescence stability for at least 3 months.				
400104291	ProTaq [®] MountAqua	Ready-to-use	IH	15 ml
400104295	ProTaq [®] MountAqua	Ready-to-use	IH	50 ml
Description: Aqueous mounting medium.				
BP-167H	ProTaq [®] PARAmount (w/o. Xylene, Toluol)	Ready-to-use	IH, IC	500 ml
Description: Water-insoluble, resin-based mounting medium without toluene or xylene. It works excellent in combination with our xylene alternative ProTaq [®] Clear.				
BP-167H-X	ProTaq [®] PARAmount (w. Xylene)	Ready-to-use	IH, IC	500 ml
Description: Mounting medium containing xylene.				

3.6 Fixatives

Fixation is necessary to retain structural organization of cells and tissues for subsequent staining. Wide ranges of fixatives are commonly used. The correct choice of method depends on the nature of antigen being examined and on the properties of the antibody used.

Organic solvents, such as alcohols and acetone remove lipids and dehydrate the cells, while precipitating the proteins on the cellular architecture.

Cross-linking reagents, such as formalin form intermolecular bridges, thus creating a network of linked antigens. Cross-linkers preserve cell structure better than organic solvents, but may reduce the antigenicity of some cell components, and require the addition of a permeabilization step, to allow access of the antibody to the specimen.



Cat. No.	Product Name	Format	Application	Quantity
400600397	ProTags® 10 % Buffered Neutral Formalin	Ready-to-use	IH	250 ml
400600301	ProTags® 10 % Buffered Neutral Formalin	Ready-to-use	IH	1 l
400600303	ProTags® 10 % Buffered Neutral Formalin	Ready-to-use	IH	3 l
400600305	ProTags® 10 % Buffered Neutral Formalin	Ready-to-use	IH	5 l
400600315	ProTags® 10 % Buffered Neutral Formalin	Ready-to-use	IH	15 l
400600320	ProTags® 10 % Buffered Neutral Formalin	Ready-to-use	IH	20 l

Description: The most common fixative for light microscopy is 10 % neutral buffered formalin (4% formaldehyde in phosphate buffered saline).

400600401	ProTags® Michel's Fixative/Transport	Ready-to-use	IH	1 l
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Description: ProTags® Michel's is used as a fixative and transport solution for skin biopsies. It is especially suitable for fixation of skin tissues and following detection of immunoglobulins. ProTags® Michel's buffer is recommended for washing steps.

400600895	ProTags® Carnoy's solution (with chloroform)	Ready-to-use	IH	50 ml
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Description: ProTags® Carnoy's solution (with chloroform) is used in histology and cytology for the fixation of tissue samples.

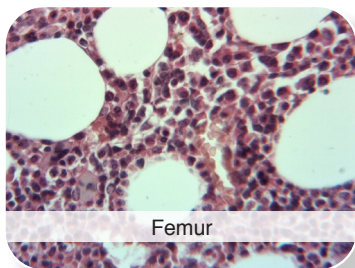
400600701	ProTags® Karnovsky Solution	Ready-to-use	IH	1 l
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Description: Karnovsky fixative, developed by M. J. Karnovsky, is a fixative for electron microscopy.

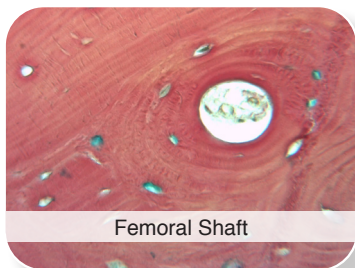
3.7 Decalcifier

Decalcification is the removal of calcium ions from bone and other hard tissues, such as teeth, in routine histological processes making it flexible and easy for pathological investigation. It is necessary to obtain soft sections as it can be processed like any other soft tissue of the body. **quartett**'s portfolio includes different decalcifier which have been found useful for various purposes. Choosing a decalcification solution depends on three main factors:

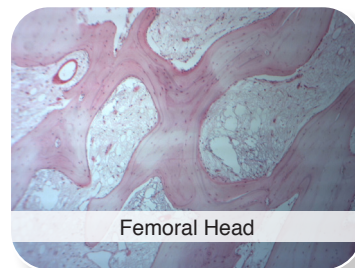
1. Type of sections to be cut.
2. Type of staining to be performed.
3. Speed of process required.



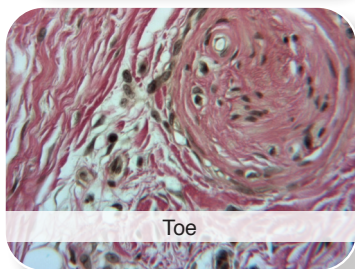
Femur



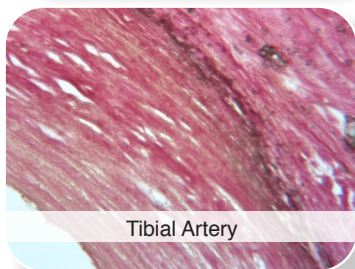
Femoral Shaft



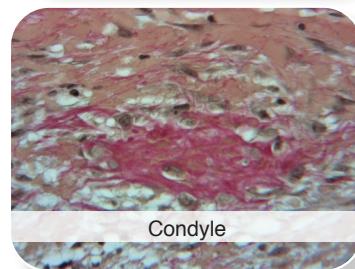
Femoral Head



Toe



Tibial Artery

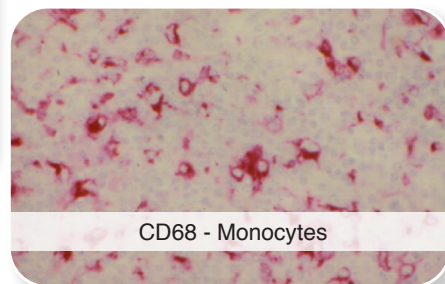
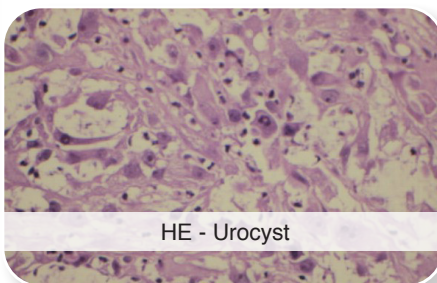
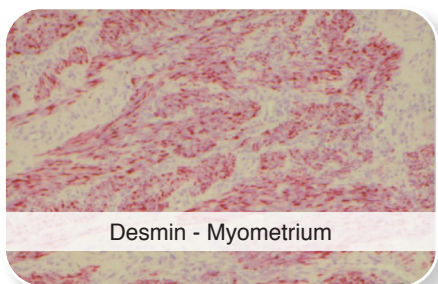


Condyle

Cat. No.	Product Name	Format	Application	Quantity
401605801	ProTaq [®] CALless Fast	Ready-to-use	Immunohistology	1000 ml
Description: ProTaq [®] CALless Fast is a rapid decalcifier. It is commonly used on bone marrow samples. It will decalcify the samples in < 1 hour. Product can be used for all typical stains.				
401606001	ProTaq [®] CALless Fix	Ready-to-use	Immunohistology	1000 ml
Description: ProTaq [®] CALless Fix performs fixation and decalcification in one run as good decalcification depends on good fixation. The product was especially designed for large bones. Cortical bones, femoral heads or teeth will decalcify better, because of better fixation.				
401605901	ProTaq [®] CALless Histo	Ready-to-use	Immunohistology	1000 ml
Description: ProTaq [®] CALless Histo is especially designed for immunohistochemical applications. It is a good tool for demonstrating antigens in decalcified bones of all types. The product will not destroy antigenic sites.				
401605701	ProTaq [®] CALless Plus	Ready-to-use	Immunohistology	1000 ml
Description: ProTaq [®] CALless Plus is known for the mild formulation. It can be used for small needle biopsies from dense cortical bone. Depending on samples size the decalcification procedure can be done overnight. All routine stains work perfect.				

3.8 Intermedium - Xylene Alternative ProTaq[®] Clear

quartett offers ProTaq[®] Clear as an alternative to xylene. At present, xylene is used as an intermedium in a large quantity of histological and cytological laboratories. However, due to its toxic effects on humans, xylene has come under increasing criticism of users. From the point of view of preventive health protection it is essential to find an alternative to xylene.



Properties:

- ▶ Saturated aliphatic hydrocarbon
- ▶ Percent of aromatics < 0.01 %
- ▶ Inflammable
- ▶ No hazard to health when exposed by inhalation or skin contact, only harmful if swallowed
- ▶ No hazard to environment and health
- ▶ Odourless
- ▶ Concentration of evaporation and saturation in the air is 6 x lower than values of xylene
- ▶ Comparable results to xylene
- ▶ Applicable in embedding and staining instruments
- ▶ Applicable in combination with other solvents and reagents
- ▶ Ensures excellent embedding, dewaxing and staining of sections
- ▶ Perfect embedding with the resinous mounting medium ProTaq[®] PARAMount and other mounting media

Applications:

- ▶ Tissue clearing and embedding
- ▶ Histological, cytological and immunohistochemical staining procedures
- ▶ Cleaning agent

Cat. No.	Product Name	Format	Application	Quantity
400301105	ProTaq [®] Clear	Ready-to-use	IH, IC	5 l
400301120	ProTaq [®] Clear	Ready-to-use	IH, IC	20 l
400300100	ProTaq [®] Clear	Ready-to-use	IH, IC	200 l

The 10 most frequently asked questions:

1. Question: Do we have to change work techniques when we use ProTaq[®] Clear?
 - ▶ No, you don't. Each laboratory gained its practice experiences. You only modify these for use of ProTaq[®] Clear. ProTaq[®] Clear can be used for all embedding and staining procedures. However, you have to make sure that absolute ethanol is used in the last ethanol series prior to ProTaq[®] Clear application.
2. Question: What is the chemical nature of ProTaq[®] Clear?
 - ▶ ProTaq[®] Clear is an environmentally friendly, saturated, aliphatic hydrocarbon.
3. Question: Are there any drawbacks compared to xylene?
 - ▶ No, there are only advantages because ProTaq[®] Clear is in contrast to xylene a nonhazardous substance. There are no hazards to environment and no hazards to health when exposed by inhalation or skin contact. However, it needs to be declared as dangerous good due to the risk of ingestion. ProTaq[®] Clear is only harmful if swallowed.
4. Question: Does ProTaq[®] Clear smell unpleasant?
 - ▶ No, it does not. ProTaq[®] Clear is absolutely odourless and can be used without any restrictions.
5. Question: Does ProTaq[®] Clear attack plastics?
 - ▶ No, it does not.
6. Question: Does ProTaq[®] Clear have the same viscosity as xylene?
 - ▶ Yes, it has.
7. Question: Is it possible to use all artificial resins as embedding medium?
 - ▶ Yes, it is. ProTaq[®] PARAMount gives the best results.
8. Question: Does ProTaq[®] Clear affect the ability to cut tissues?
 - ▶ No, it does not.
9. Question: Do we need more time, e.g. for deparaffinizing?
 - ▶ ProTaq[®] Clear removes paraffin very fast and penetrates well. But you will need a little more time.
10. Question: Does it provide optimum brightening of tissue?
 - ▶ Yes, it does. Optical refraction index corresponds with that of xylene.

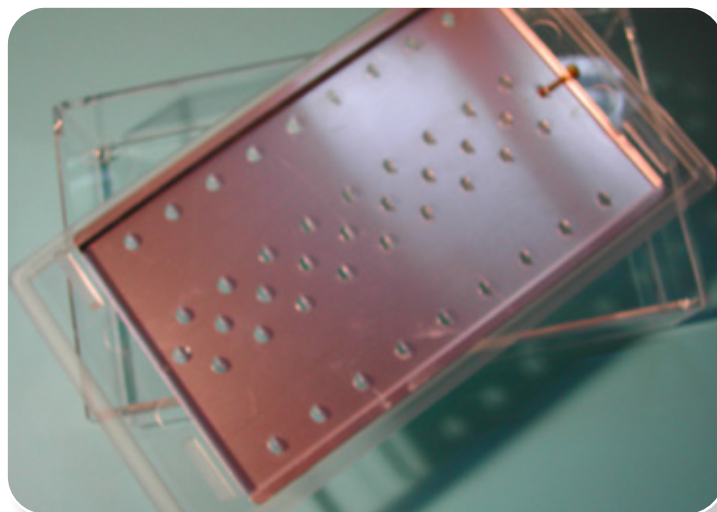
4. Instruments for Histology

4.1 Humidity Chamber - Slide Humidore

Slide humidore is made of high quality acrylic glass. It is especially designed for histochemical staining needing humidity during the incubation step. The top cover closes exactly guaranteeing that the content will not dry out over a long period. The slide humidore is supplied with two acrylic trays and two aluminium trays for a 40 slide capacity. Additional trays are increasing the capacity up to 80 slides.

The slide humidore is also available in black color (lightproof) for In-situ-Hybridization.

Size: L: 37,5 cm; W: 21,0 cm; H: 9,0 cm.



Cat. No.	Product Name	Application
990100100	Slide Humidore	IH, IHC(p), ISH
990100200	Slide Humidore Black	ISH
990100101	Extra Acryltray	IH, IHC(p)
990100102	Extra Aluminiumtray	IH, IHC(p)
990100103	Extra Aluminiumtray Black	IH, ISH

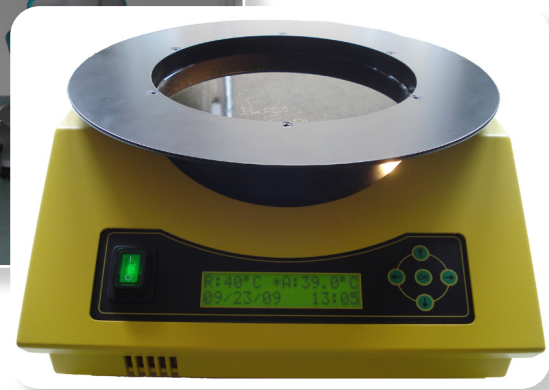
4.2 Tissue Float Bath 3 in 1 *** IVD ***

Tissue Float Bath has been specially developed for certified QMS laboratories working according to **DIN EN ISO 13485** and provides 3 functions in 1:

- ▶ Antigen retrieval in the range of 30 to 100 °C including control and record of temperature
- ▶ Tissue extension
- ▶ Slide warming



Picture granted by:
Vivantes Klinikum Berlin-Neukölln; Department of Pathology



Properties of Tissue Float Bath:

- ▶ According to DIN EN ISO 13485 suitable for antigen retrieval
- ▶ Permanent temperature control by microprocessor
- ▶ Temperature documentation every minute
- ▶ Temperature range of 30 - 100 °C (+ / - 0,5 °C)
- ▶ Daily printout protocol with user name (USB port)
- ▶ Language: Multi language display
- ▶ Registration: UL / TÜV / GS-Certification
- ▶ Illumination: White
- ▶ Measures: L: 36 cm; W: 32 cm; H: 15 cm
- ▶ Bowl size: External: ø 32 cm; Internal: ø 19,6 cm; Internal height: 6,5 cm
- ▶ Voltage: 110 / 115 and 220 / 240 VAC
- ▶ Net weight: 7 kg

Cat. No.	Product Name	Application
990100710	Tissue Float Bath (110 VAC)	IH
990100720	Tissue Float Bath (220 VAC)	IH

5. Accessories for Anatomy and Pathology

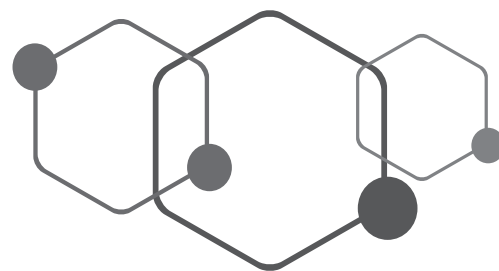
Cat. No.	Product Name	Details	Size	Application	Quantity
990101500	PM Thread	100 % linen, grey	442.5 m	Postmortem	1 Unit
990101501	PM Thread Polyester 5 Cord 4 Oz	Polyester vinyl coated thread, white	9.14 m	Postmortem	1 Unit
990101502	PM Waxed Thread 7 Cord	Waxed polyester thread, natural color	335 m	Postmortem	1 Unit
990101503	PM Unwaxed Thread 7 Cord	Heavy-duty, thick unwaxed thread, natural color	91.44 m	Postmortem	1 Unit



6. Peptides

Peptides are short chains of amino acid monomers linked by peptide bonds. The shortest peptides are dipeptides, consisting of 2 amino acids, followed by tripeptides, oligopeptides up to polypeptides.

quartett with its expertise has the knowledge to produce any kind of compound with a high quality standard according to your specifications.



quartett peptides

6.1 Enzyme Inhibitors

quartett is pleased to offer a broad range of **protease inhibitors** as well as **protease and phosphatase inhibitor cocktail kits**. All products are synthetic and manufactured according to ISO 9001:2015 & EN ISO 13485:2016 which guarantees highest quality.

6.1.1 Protease Inhibitors

Significance of protease inhibitors: Isolation of proteins and peptides from a biological matrix and their characterization is an important tool in research and development. Their processing is often accompanied by loss of activity and loss of yield caused by enzymatic decomposition due to proteases (proteolysis). Proteolysis needs to be efficiently inhibited *in vivo* and *in vitro* by protease inhibitors. Inhibition of proteolytic activity is also important to study regulatory mechanisms of proteolytic processes, such as apoptosis, hormonal regulation, or blood coagulation.

Classification: Protease inhibitors are classified on the basis of type of protease they inhibit, or by the mechanism of inhibition. Four main classes are described: serine -, cysteine -, aspartic -, and metalloproteases.

Cat. No.	Product Name	Synonym	Target	Quantity		
PPI 1310	AEBSF HCl	Pefabloc SC, 4-(2-Aminoethyl)benzenesulfonylfluoride hydrochloride	Chymotrypsin, Kallikrein, Plasmin, Trypsin, Thrombin	bulk		
PPI 1310-25				25 mg		
PPI 1310-100				100 mg		
	Specification	Specific, irreversible serine protease inhibitor. Ideal substitute for PMSF and DFP with a comparable inhibitory activity. Advantages to PMSF: non-toxic, brilliant blocker of thrombin activity in serum or plasma.				
	CAS No.	30827-99-7	Molecular Formula	C ₈ H ₁₀ FNO ₂ S · HCl	Molecular Weight	239.69
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: 2-4 months, if stored at pH < 6.7	Solubility	50 mg/ml in aqueous buffers or water
PPI 6011	Acetyl-Pepstatin	Ac-Val-Val-Sta-ALa-Sta-OH	HIV-1 proteinase, HIV-2 proteinase	bulk		
PPI 6011-5				5 mg		
PPI 6011-25				25 mg		
	Specification	A potent inhibitor of aspartyl proteases.				
	CAS No.	28575-34-0	Molecular Formula	C ₃₁ H ₅₇ N ₅ O ₉	Molecular Weight	643.82
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in 1:1 mixture water/acet-ic acid
PNO 1011	Alafosfalin	L-Alanyl-L-1-aminoethylphosphonic acid, [(1R)-1-[[[(2S)-2-azanylpropanoyl]amino]ethyl]phosphonic acid, Alaphosphin	Alanine antagonist, Murein biosynthesis	bulk		
PNO 1011-250				250 mg		
PNO 1011-500				500 mg		
	Specification	Alafosfalin has an antibacterial activity.				
	CAS No.	60668-24-8	Molecular Formula	C ₅ H ₁₃ N ₂ O ₄ P	Molecular Weight	196.14
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light		

Cat. No.	Product Name	Synonym	Target	Quantity		
PPI 1010	Amastatin HCl	[(2S,3R)-3-Amino-2-hydroxy-5-methylhexanoyl]-Val-Val-Asp-OH	Cytosolic leucine aminopeptidase, Microsomal aminopeptidase M, Bacterial leucine aminopeptidase, Aminopeptidase A, Tyrosine aminopeptidase	bulk		
PPI 1010-5				5 mg		
PPI 1010-25				25 mg		
	Specification	Slow, tight-binding inhibitor of aminopeptidases. No inhibition of aminopeptidase B. Originally Amastatin has been isolated from the culture filtrate of Streptomyces sp. Has been used to potentiate the action of some bioactive peptides by inhibiting their degradation by aminopeptidases.				
	CAS No.	100938-10-1	Molecular Formula	C ₂₁ H ₃₈ N ₄ O ₈ · HCl	Molecular Weight	511.01
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: max. 1 month	Solubility	1 mM in polar solvents
PPI 2010	Antipain 2HCl	N-(N-Carbonyl-Arg-Val-Arg- <i>al</i>)-Phe dihydrochloride	Trypsin, Cathepsin A, B, D, Plasmin, Chymotrypsin, Pepsin, Calpain	bulk		
PPI 2010-25				25 mg		
PPI 2010-100				100 mg		
	Specification	Inhibitor of Ca ²⁺ -dependent endopeptidases. Antipain was former isolated from actinomycetes. The name Antipain derives from anti-Papain and has a similiar specificity to Leupeptin. Reversal inhibitor of Papain.				
	CAS No.	37682-72-7	Molecular Formula	C ₂₇ H ₄₄ N ₁₀ O ₆ · 2 HCl	Molecular Weight	677.6
	Serving	pale yellow solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: max. 1 month	Solubility	10 mg/ml in water, DMSO, methanol
PPI 1110	Aprotinin	Pancreatic trypsin inhibitor (BPTI)	Chymotrypsin, Kallikrein, Plasmin, Trypsin, Tissue and leukocytic Proteinases	bulk		
PPI 1110-25				25 mg		
PPI 1110-100				100 mg		
	Specification	A competitive and reversible inhibitor of esterases and proteases. Single chain polypeptide (58 amino acids) crosslinked by three disulfide bridges. Does not act on thrombin or factor X. Forms a tight complex with and blocks the active site of the enzymes. Used as a proteolytic inhibitor in radioimmunoassays of polypeptide hormones.				
	CAS No.	9087-70-1	Molecular Formula	C ₂₈₄ H ₄₃₂ - N ₈₄ O ₇₉ S ₇	Molecular Weight	6511.44
	Serving	white solid	Quality Control	Analysis by gel filtration	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots max. 6 months	Solubility	Easily soluble in water (5 mg/ml)
PPI 1510	Bestatin HCl	N-[(2S,3R)-3-Amino-2-hydroxy-4-phenylbutyryl]-L-leucine hydrochloride	Leucine Aminopeptidase, Aminopeptidase B, and Triamino Peptidase, Aminopeptidases on the surface of mammalian cells	bulk		
PPI 1510-5				5 mg		
PPI 1510-25				25 mg		
	Specification	A reversible inhibitor of aminopeptidase enzymes. Inhibition by Bestatin correlates to apoptosis induction in oncogenic cells. Has antitumor properties. It showed no inhibition of aminopeptidase A, trypsin, chymotrypsin, elastase, papain, pepsin, or themolysin.				
	CAS No.	65391-42-6	Molecular Formula	C ₁₆ H ₂₄ N ₂ O ₄ · HCl	Molecular Weight	344.84
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: max. 1 month	Solubility	20 mg/ml in 1 M HCl, 5 mg/ml in methanol
PPI 1520	Bestatin Ubenimex	[(2S,3R)-3-Amino-2-hydroxy-4-phenylbutyryl]-L-leucine	Aminopeptidase B, Leukotriene A4 hydrolase, Aminopeptidase N	bulk		
PPI 1520-5				5 mg		
PPI 1520-25				25 mg		
	Specification	A competitive protease inhibitor that is being studied for use in the treatment of acute myelocytic leukemia.				
	CAS No.	103476-89-7	Molecular Formula	C ₁₆ H ₂₄ N ₂ O ₄	Molecular Weight	308.3
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 98 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	50 mg/mL in 80 % AcOH
PPI 8210	Boc-statine	(3S,4S)-4-(Boc-amino)-3-hydroxy-6-methyl-heptanoic acid, Boc-(3S,4S)-Sta-OH	Acid proteases	bulk		
PPI 8210-100				100 mg		
PPI 8210-250				250 mg		
	Specification	A low molecular weight inhibitor.				
	CAS No.	58521-49-6	Molecular Formula	C ₁₃ H ₂₅ N ₅ O ₅	Molecular Weight	275.34
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light		

Cat. No.	Product Name	Synonym	Target	Quantity		
PBR 0110	Bradykinin	BK, Kallidin I, Kallidin-9, BRS-640		bulk		
PBR 0110-25				25 mg		
PBR 0110-100				100 mg		
	Specification	Bradykinin is a pro-inflammatory peptide. Activation of sphingolipid metabolism. Significant production increase in ceramide followed by a transient rise in sphingosine content, can be regarded if fibroblasts are treated with bradykinin. Induces the release of nitric oxide. Other physiological functions include stimulation of pain receptors, inhibition of cAMP accumulation, and induction of smooth muscle contraction and vasodilation.				
	CAS No.	6846-03-3	Molecular Formula	C50H73N15O11	Molecular Weight	1060.22
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 30 months, if stored dry and protected from light		
PPI 3010	Calpain Inhibitor I (MG101)	ALLN, Ac-LLnL-CHO, MG-101, N-Acetyl-L-leucyl-L-leucyl-L-norleucinal, N-Acetyl-Leu-Leu-Norleu-al	Calpain I, Calpain II, Cathepsin B, Cathepsin L, Papain, weakly Cathepsin H and α -Chymotrypsin	bulk		
PPI 3010-5				5 mg		
PPI 3010-25				25 mg		
	Specification	Calpain Inhibitor I has been observed to initiate apoptosis in tumor cell lines and HL-60 cells, but blocks dexamethasone-induced apoptosis in thymocytes and cycloheximide-induced apoptosis in metamyelocytes. Prevents nitric oxide production by activated macrophages. Protects against neuronal damage caused by hypoxia and ischemia.				
	CAS No.	110044-82-1	Molecular Formula	C20H37N3O4	Molecular Weight	383.53
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: a few days	Solubility	10 mg/ml in DMSO or ethanol
PPI 3510	Calpain Inhibitor II	ALLM, N-Acetyl-L-leucyl-L-leucyl-L-methioninal	Calpain I, Calpain II, Cathepsin B, Cathepsin L, weakly inhibition of proteasome	bulk		
PPI 3510-5				5 mg		
PPI 3510-25				25 mg		
	Specification	Cell permeable inhibitor of Calpain I, Calpain II, Cathepsin B, and Cathepsin L. Strong inhibitory activity against Cathepsin L and the strongest activity of Cathepsin B amongst the peptide aldehydes. Inhibits activation-induced programmed cell death and restores defective immune responses in HIV+ donors. Prevents nitric oxide production by activated macrophages.				
	CAS No.	110115-07-6	Molecular Formula	C19H35N3O4S	Molecular Weight	401.57
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: max. 3 months		
PPI 3610	Calpain Inhibitor III	Carbobenzoxy-valinyl-phenylalaninal, MDL 28170	Calpain I, Calpain II	bulk		
PPI 3610-5				5 mg		
PPI 3610-25				25 mg		
	Specification	A potent, cell-permeable inhibitor. Reduces capsaicin-mediated cell death in cultured dorsal root ganglion neurons. Modulation of an A β formation by inhibiting the formation of intermediate A β 1-46 and protecting A β from degradation, observed by Dong <i>et al.</i>				
	CAS No.	88191-84-8	Molecular Formula	C22H26N2O4	Molecular Weight	382.45
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: a few days	Solubility	10 mg/ml in DMSO or ethanol, insoluble in water
PPI 3710	Calpain Inhibitor IV (MG132)	Z-Leu-Leu-Leu-al	Proteasome, Calpain	bulk		
PPI 3710-5				5 mg		
PPI 3710-25				25 mg		
	Specification	A potent, reversible, and cell-permeable proteasome inhibitor. Initiates neurite outgrowth in PC12 cells with an optimal concentration of 10 μ M. Reduces the degradation of ubiquitin-conjugated proteins in mammalian cells and permeable strains of yeast by the 26S complex without affecting its ATPase or isopeptidase activities. Blocks cleavage of poly(ADP-ribose) polymerase and apoptosis in thymocytes. It activates JNK-1, responsible for apoptosis initiation in response to cell stress.				
	CAS No.	133407-82-6	Molecular Formula	C26H41N3O5	Molecular Weight	475.63
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	1 mg/ml in ethanol

Cat. No.	Product Name	Synonym	Target	Quantity		
NPI 02	Cathepsin Inhibitor I	Z-Phe-Gly-NHO-Bz	Selectively inhibition of Cathepsin B, Cathepsin L, Cathepsin S, Papain	bulk		
NPI 02-1				1 mg		
NPI 02-5				5 mg		
	Specification	Cell-permeable cysteine protease inhibitor.				
		Molecular Formula	C26H25N3O6	Molecular Weight	475.5	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in acetonitrile, DMSO, ethanol
NPI 03	Cathepsin Inhibitor II	Z-Phe-Gly-NHO-Bz-p-Me	Selectively inhibition of Cathepsin B, Cathepsin L, Cathepsin S, Papain	bulk		
NPI 03-1				1 mg		
NPI 03-5				5 mg		
	Specification	Cysteine protease inhibitor.				
		Molecular Formula	C27H27N3O6	Molecular Weight	489.5	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in acetonitrile, DMSO, ethanol
NPI 04	Cathepsin Inhibitor III	Z-Phe-Gly-NHO-Bz-p-OMe	Selectively inhibition of Cathepsin B, Cathepsin L, Cathepsin S, Papain	bulk		
NPI 04-1				1 mg		
NPI 04-5				5 mg		
	Specification	Cysteine protease inhibitor.				
		Molecular Formula	C27H27N3O7	Molecular Weight	505.5	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in acetonitrile, DMSO, ethanol
NPI 05	Cathepsin Inhibitor	Z-Gly-Phe-NHO-Bz	Cathepsin B, Cathepsin L, Cathepsin S	bulk		
NPI 05-1				1 mg		
NPI 05-5				5 mg		
		Molecular Formula	C26H25N3O6	Molecular Weight	475.5	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in acetonitrile, DMSO, EtOH
NPI 07	Cathepsin Inhibitor	Boc-Pro-Phe-NHO-Bz-p-Cl	Cathepsin B, Cathepsin L, Cathepsin S	bulk		
NPI 07-1				1 mg		
NPI 07-5				5 mg		
		Molecular Formula	C26H30N3O6Cl	Molecular Weight	517.0	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in acetonitrile, DMSO, EtOH
NPI 09	Cathepsin/Subtilisin Inhibitor	Boc-Val-Phe-NHO-Bz-p-Cl	Cathepsin L, Subtilisin, Carlsberg and Thermitase	bulk		
NPI 09-1				1 mg		
NPI 09-5				5 mg		
	Specification	Cysteine protease and serine protease inhibitor.				
		Molecular Formula	C26H32N3O6Cl	Molecular Weight	518.0	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in acetonitrile, DMSO, EtOH

Cat. No.	Product Name	Synonym	Target	Quantity		
PPI 1810	E-64	L-trans-Epoxy succinyl-Leu-4-guanidinobutylamide, L-trans-Epoxy succinyl-Leu-aggmatine	Papain, Bromelain, Ficin, Cathepsin B, H, L, Tumor-Cathepsin, Calpain	bulk		
PPI 1810-5				5 mg		
PPI 1810-25				25 mg		
	Specification	An irreversible, highly selective cysteine protease inhibitor. Shows no inhibition against serine proteases with an except of trypsin. Interacts with the Sn subsites of proteases. For <i>in vivo</i> studies the use of E-64 as a cysteine protease inhibitor is highly recommended because it has a specific inhibition, it is permeable in cells and tissues and has low toxicity. Inhibits activation-induced programmed cell death and restores defective immune responses in HIV+ donors.				
	CAS No.	66701-25-5	Molecular Formula	C15H27N5O5	Molecular Weight	357.41
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 2 months	Solubility	15 mg/ml in 1:1 mixture water/ethanol
PPI 1812	E-64 c	L-trans-Epoxy succinyl-Leu-3-methylbutylamide,2S,3S)-trans-Epoxy succinyl-L-leucylamido-3-methylbutane, EP 475	Calpain, Cathepsin B and L, other Cysteine proteases	bulk		
PPI 1812-1				1 mg		
PPI 1812-5				5 mg		
	Specification	A potent calpain inhibitor and a membrane-impermeable analog of E-64. It shows a better inhibition activity against cathepsins B and L than E-64.				
	CAS No.	76684-89-4	Molecular Formula	C15H26N2O5	Molecular Weight	314.38
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 98 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 2 months	Solubility	5 mg/ml in DMSO
PPI 1811	E-64 d	L-trans-Epoxy succinyl-Leu-3-methylbutylamide-ethyl ester, L-trans-Epoxy succinyl(OEt)-Leu-3-methylbutylamide, EP453, Aloxistatin, Loxistatin	Papain, Bromelain, Ficin, Cathepsin B, H and L, Tumor-Cathepsin, Calpain	bulk		
PPI 1811-1				1 mg		
PPI 1811-5				5 mg		
	Specification	An irreversible, highly selective cysteine protease inhibitor and a cell-permeable analog of E-64 but with the difference that E-64 d has no charged groups. Has been used for research studies of muscular dystrophy.				
	CAS No.	88321-09-9	Molecular Formula	C17H30N2O5	Molecular Weight	342.43
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 98 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 2 months	Solubility	5 mg/ml in ethanol or DMSO
NPI 10	Elastase/Subtilisin Inhibitor	Boc-Ala-Pro-Phe-NHO-Bz	Members of Cysteine and Serine Proteases, Elastase and Subtilisin	bulk		
NPI 10-1				1 mg		
NPI 10-5				5 mg		
	Specification	Inhibitor of cysteine and serine proteases.				
PPI 1210	Epimastatin HCl	[(2R,3R)-3-Amino-2-hydroxy-5-methylhexanoyl]-Val-Val-Asp hydrochloride	Amino peptidases	bulk		
PPI 1210-1				1 mg		
PPI 1210-5				5 mg		
	Specification	A metallo-protease inhibitor showing a selectivity for amino peptidases. Epimastatin is pharmacologically inactive compared to Amastatin and differs only by a single transposition of an OH group.				
	CAS No.	100992-59-4	Molecular Formula	C21H38N4O8 · HCl	Molecular Weight	474.55
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light		
PPI 1710	Epibestatin HCl	[(2R,3R)-3-Amino-2-hydroxy-4-phenylbutanoyl]-L-leucine	Amino peptidases	bulk		
PPI 1710-1				1 mg		
PPI 1710-5				5 mg		
	Specification	A metallo-protease inhibitor showing a selectivity for amino peptidases.				
	CAS No.	100992-60-7	Molecular Formula	C16H24N2O4 · HCl	Molecular Weight	344.83
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	25 mg/ml in water

Cat. No.	Product Name	Synonym	Target	Quantity		
PPI 1910	FALGPA	N-[3-(2-Furyl)acryloyl]-L-leucyl-glycyl-L-prolyl-L-alanine	Aminopeptidases	bulk		
PPI 1910-5				5 mg		
PPI 1910-25				25 mg		
	Specification	Substrate for collagenase for the use in a continuously recording spectrophotometric assay reducing the adsorption range to 324 - 345 nm.				
	CAS No.	78832-65-2	Molecular Formula	C23H32N4O7	Molecular Weight	476.52
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 98 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light		
PPI 4011	Leupeptin HCl	Acetyl-Leu-Leu-Arg-al hydrochloride	Calpain, Plasmin, Trypsin, Papain, Cathepsin B, H, L, Kallikrein, Thrombin	bulk		
PPI 4011-25				25 mg		
PPI 4011-100				100 mg		
	Specification	A potent, reversible inhibitor of serine and cysteine proteases. It showed little to no inhibition activity against: pepsin, cathepsins A and D and alpha-chymotrypsin. All three salt forms are equally effective, when adjusted to their molarity.				
	CAS No.	24125-16-4	Molecular Formula	C20H38N6O4 · HCl	Molecular Weight	463.01
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 2 months	Solubility	50 mg/ml in water
PPI 4010	Leupeptin Hemisulfate	Acetyl-Leu-Leu-Arg-al, N-Acetyl-L-leucyl-L-leucyl-L-argininal hemisulfate salt	Calpain, Plasmin, Trypsin, Papain, Cathepsin B, H, L, Kallikrein, Thrombin	bulk		
PPI 4010-25				25 mg		
PPI 4010-100				100 mg		
	Specification	A potent, reversible inhibitor of serine and cysteine proteases. It showed little to no inhibition activity against: pepsin, cathepsins A and D and alpha-chymotrypsin. All three salt forms are equally effective, when adjusted to their molarity.				
	CAS No.	103476-89-7	Molecular Formula	C20H38N6O4 · 1/2H2SO4	Molecular Weight	475.59
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 97 %
	Storage	-20 °C	Stability	Lyoph.: 30 months, Stock solution: Aliquots 2 months	Solubility	50 mg/ml in water
PPI 4012	Leupeptin TFA	Acetyl-Leu-Leu-Arg-al trifluoroacetate salt	Calpain, Plasmin, Trypsin, Papain, Cathepsin B, H, L, Kallikrein, Thrombin	bulk		
PPI 4012-25				25 mg		
PPI 4012-100				100 mg		
	Specification	A potent, reversible inhibitor of serine and cysteine proteases. It showed little to no inhibition activity against: pepsin, cathepsins A and D and alpha-chymotrypsin. All three salt forms are equally effective, when adjusted to their molarity.				
	CAS No.	147385-61-3	Molecular Formula	C20H38N6O4 · C2HF3O2	Molecular Weight	540.6
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 2 months	Solubility	50 mg/ml in water
PPI 6010	Pepstatin A	Isovaleryl-L-valyl-L-valyl-[(3S, 4S)-4-amino-3-hydroxy-6-methylheptanoyl]-L-alanyl [3S,4S)-4-amino-3-hydroxy-6-methylheptanoic acid], Iva-Val-Val-Sta-Ala-Sta	Pepsin, Renin, Cathepsin D, Chymosin, Protease B, retroviral Proteases	bulk		
PPI 6010-25				25 mg		
PPI 6010-100				100 mg		
	Specification	A potent, reversible, highly selective inhibitor for acid proteases (aspartate proteases). Has shown to inhibit HIV and MMTV proteases and no activity against thiol proteases. Pepstatin is little toxic.				
	CAS No.	26305-03-3	Molecular Formula	C34H63N5O9	Molecular Weight	685.89
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 98 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 1 month	Solubility	1 mg/ml in ethanol
PPI 6110	Phosphoramidon disodium salt	N-(α-Rhamno pyranosyl oxy hydroxy phosphinyl)-Leu-Trp disodium salt, N-(α-Rhamno pyranosyl phosphono)-L-leucyl-L-tryptophan disodium salt	Thermolysin, Endothelin converting enzyme, Collagenase	bulk		
PPI 6110-5				5 mg		
PPI 6110-25				25 mg		
	Specification	A potent, reversible inhibitor of metallo-proteases. Inhibition of some metallo-endopeptidases.				
	CAS No.	119942-99-3	Molecular Formula	C21H40N6O4 · 1/2H2SO4	Molecular Weight	489.62
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: Aliquots 1 month	Solubility	in water

Cat. No.	Product Name	Synonym	Target	Quantity		
PPI 4013	Propionyl-leupeptin hemisulfate salt	Propionyl-Leu-Leu-Arg-al hemisulfate	Serine proteases, Cysteine proteases	bulk		
PPI 4013-25				25 mg		
PPI 4013-100				100 mg		
	Specification	Estrogen receptors are cleaved by endogenous proteases during isolation, but progressively larger complexes are obtained with increasing concentrations of acetyl- and propionyl-leupeptin.				
	CAS No.	24365-46-6	Molecular Formula	C ₂₁ H ₄₀ N ₆ O ₄ · 1/2H ₂ SO ₄	Molecular Weight	489.62
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 95 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	in water
NPI 01	Subtilisin Inhibitor I	Boc-Ala-Ala-NHO-Bz	Inhibition of Serine Proteases including Subtilisin and Thermitase	bulk		
NPI 01-1				1 mg		
NPI 01-5				5 mg		
	Specification	Inhibition of Serine Proteases.				
		Molecular Formula	C ₁₈ H ₂₅ N ₃ O ₆	Molecular Weight	378.4	
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 92 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, if stored dry and protected from light	Solubility	acetonitrile, DMSO, EtOH
PPI 8010	TLCK	Tos-Lys-chloromethylketone · HCl, (3S)-7-Amino-1-chlor-3-tosylamino-2-heptanon - Hydrochlorid	Trypsin, Thrombin-like protease Cerastocytin, Proteinkinase C	bulk		
PPI 8010-100				100 mg		
PPI 8010-250				250 mg		
	Specification	A specific, highly effective, irreversible inhibitor of lysyl endopeptidase. It showed no inhibition of chymotrypsin. Activated caspase proteases can be inhibited with TLCK.				
	CAS No.	4272-74-6	Molecular Formula	C ₁₄ H ₂₁ ClN ₂ O ₃ S · HCl	Molecular Weight	369.31
	Serving	white solid	Quality Control	Analysis by HPLC	Purity	> 98 %
	Storage	-20 °C	Stability	Lyoph.: 24 months, Stock solution: best stability at pH 6.0	Solubility	25 mg/ml in methanol

6.1.2 Protease Inhibitor Cocktail Kits

Cat. No.	Product Name	Components	Target	Format	Application	Quantity
PPI 1011	Start Perfect	AEBSF Hydrochloride Pepstatin A EDTA Leupeptin Hemisulfate	Serine proteases Aspartic proteases Metalloproteases Cysteine - and Trypsin-like proteases	Lyophilized	Cell extractions	Vial
PPI 1012	Broad Perfect	AEBSF Hydrochloride Aprotinin E-64 EDTA Leupeptin Hemisulfate	Serine proteases Serine proteases and Esterases Cysteine proteases Metalloproteases Cysteine - and Trypsin-like proteases	Lyophilized	Eukaryotic cell extractions	Vial
PPI 1020	Broad 2 Perfect	AEBSF Hydrochloride Aprotinin Bestatin E-64 Leupeptin Hemisulfate Pepstatin A	Serine proteases Serine proteases and Esterases Aminopeptidase B, Leucine aminopeptidase Cysteine proteases Cysteine - and Trypsin-like proteases Aspartic proteases	Lyophilized	Eukaryotic cell extractions	Vial
PPI 1013	Bacteria Perfect	AEBSF Hydrochloride Bestatin E-64 EDTA Pepstatin A	Serine proteases Aminopeptidase B, Leucine aminopeptidase Cysteine proteases Metalloproteases Aspartic proteases	Lyophilized	Bacterial cell extractions	Set of 2 Vials
PPI 1014	Tissue Perfect	AEBSF Hydrochloride Aprotinin Bestatin E-64 Leupeptin Hemisulfate Pepstatin A	Serine proteases Serine proteases and Esterases Aminopeptidase B, Leucine aminopeptidase Cysteine proteases Cysteine - and Trypsin-like proteases Aspartic proteases	Ready-to-use	Mammalian cells and tissue extractions	Vial
PPI 1015	Tissue 2 Perfect	AEBSF Hydrochloride Aprotinin E-64 Leupeptin Hemisulfate	Serine proteases Serine proteases and Esterases Cysteine proteases Cysteine - and Trypsin-like proteases	Lyophilized	Mammalian cells and tissue extractions	Vial
PPI 1016	His Perfect	AEBSF Hydrochloride Bestatin E-64 Phosphoramidon Pepstatin A	Serine proteases Aminopeptidase B, Leucine aminopeptidase Cysteine proteases Metalloproteases Aspartic proteases	Ready-to-use	Extractions of His-tagged proteins	Vial
PPI 1021	Plant Perfect	AEBSF Hydrochloride Bestatin E-64 Leupeptin Pepstatin A 1,10-Phenanthroline	Serine proteases Aminopeptidase B, Leucine aminopeptidase Cysteine proteases Cysteine - and Trypsin-like proteases Aspartic proteases Metalloproteases	Ready-to-use	Extraction of plant tissue	Vial
PPI 1022	Yeast Perfect	AEBSF Hydrochloride E-64 Pepstatin A 1.10-Phenanthroline	Serine proteases Cysteine proteases Aspartic proteases Metalloproteases	Ready-to-use	Extraction of yeast cells and fungi	Vial
PPI 1023	Cystein Perfect	Calpain Inhibitor I Cathepsin Inhibitor I E-64	Calpain I + II, Cathepsin B, L, Papain Cathepsin B, L, S, Papain Cysteine proteases	Ready-to-use	Inhibition of cystein proteases during protein extraction	Vial

6.1.3 Protease and Phosphatase Inhibitor Cocktail Kits

quartett provides **phosphatase inhibitor cocktails kits** as well as **combined cocktails kits** containing phosphatase and protease inhibitors for studying processes that require the protection of proteins from dephosphorylation and proteolysis.

Significance of protease inhibitors: See chapter 9.3.1. (page 242).

Significance of phosphatase inhibitors: Protein phosphorylation performed by protein kinases is a key regulatory mechanism that controls protein activity, interactions, localization, degradation as well as processes of signal transduction, cell cycle, apoptosis, metabolism and others. The reverse reaction (dephosphorylation) is the removal of phosphate from the protein which is performed by protein phosphatases. In research and development, the analysis of cellular processes including protein phosphorylation requires the inhibition of cellular protein phosphatases by suitable inhibitors. The inhibition of phosphatases enables the study of target proteins in the phosphorylation state.

Classification: Similar to protease inhibitors the phosphatase inhibitors are classified on the basis of type of phosphatase they inhibit, or by the mechanism of inhibition. Four main classes are described: alkaline phosphatases, serine / threonine phosphatases, tyrosine phosphatases as well as tyrosine phosphatases with dual specificity for serine and threonine residues.

Cat. No.	Product Name	Components	Target	Format	Quantity
PPI 1040	Phosphatase Inhibitor Cocktail Kit I	Imidazole Sodium Fluoride Sodium Molybdate Sodium Orthovanadate Sodium Tartrate Dihydrate	The cocktail has been optimized for inhibition of acid and alkaline as well as protein tyrosine phosphatases.	Lyophilized	Vial
PPI 1041	Phosphatase Inhibitor Cocktail Kit II	Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosin phosphatases.	Lyophilized	Vial
PPI 1042	Protease and Phosphatase Inhibitor Cocktail Kit I	AEBSF Hydrochloride Aprotinine Bestatin Hydrochloride E-64 Leupeptin Hemisulfate Pepstatin A Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosine phosphatases as well as a broad range of proteases (serine proteases, esterases, aminopeptidase B, leucine aminopeptidase, cysteine proteases, cysteine- and trypsin-like proteases, aspartic proteases).	1 ml stock solution	Vial
PPI 1043	Protease and Phosphatase Inhibitor Cocktail Kit II	Aprotinine Bestatin Hydrochloride E-64 Leupeptin Hemisulfate Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate optional EDTA	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosine phosphatases as well as a broad range of proteases (serine proteases, esterases, aminopeptidase B, leucine aminopeptidase, cysteine proteases, cysteine- and trypsin-like proteases, optional metalloproteases).	1 ml stock solution and optional 1 ml EDTA	Vial
PPI 1044	Protease and Phosphatase Inhibitor Cocktail Kit III	AEBSF Hydrochloride Aprotinine E-64 Leupeptin Hemisulfate Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosine phosphatases as well as a broad range of proteases (serine proteases, esterases, cysteine proteases, cysteine- and trypsin-like proteases).	Lyophilized	Vial
PPI 1045	Protease and Phosphatase Inhibitor Cocktail Kit IV	AEBSF Hydrochloride Pepstatin A EDTA Leupeptin Hemisulfate Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosine phosphatases as well as a broad range of proteases (serine proteases, aspartic proteases, metalloproteases, cysteine- and trypsin-like proteases).	Lyophilized	Vial

Cat. No.	Product Name	Components	Target	Format	Quantity
PPI 1046	Protease and Phosphatase Inhibitor Cocktail Kit V	AEBSF Hydrochloride Aprotinine E-64 EDTA Leupeptin Hemisulfate Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosine phosphatases as well as a broad range of proteases (serine proteases, esterases, cysteine proteases, metalloproteases, cysteine- and trypsin-like proteases).	Lyophilized	Vial
PPI 1047	Protease and Phosphatase Inhibitor Cocktail Kit VI	AEBSF Hydrochloride Aprotinine Bestatin Hydrochloride E-64 Leupeptin Hemisulfate Pepstatin A Sodium Fluoride Sodium Orthovanadate Sodium Pyrophosphate β-Glycerophosphate	The cocktail has been optimized for inhibition of serine / threonine and protein tyrosine phosphatases as well as a broad range of proteases (serine proteases, esterases, aminopeptidase B, leucine aminopeptidase, cysteine proteases, cysteine- and trypsin-like proteases, aspartic proteases).	Lyophilized	Vial

6.2 Collagenase Inhibitors

The project were funded by the Brandenburg Ministry of Economics and European Affairs and the Federal Republic of Germany. Responsibility for the content of the publication rests with the author.

Cat. No.	Product Name	CAS No.	Chemical Name	Quantity
PCI 01	Collagenase (MMP1)	123984-00-9	(Z-Pro-Leu-Ala-NHOH) IC ₅₀ : 10 ⁻⁶ Collagenase; human skin and pollywog	1 mg
PCI 02	Collagenase (MMP1)	123984-15-6	(Z-Pro-D-Leu-D-Ala-NHOH) IC ₅₀ : 10 ⁻⁶ Collagenase; human skin and pollywog	1 mg
PCI 03	Gelatinase B (MMP9)	103145-74-0	(Z-Pro-Leu-Gly-NHOH) IC ₅₀ : 150 μM (C-Proteinase)	1 mg

7. Services

quartett with its expertise has the knowledge to produce any kind of compound with a high quality standard according to your specifications. Working according to **ISO 9001:2015 & EN ISO 13485:2016** **quartett** guarantees products of highest quality.

We have long-standing experience in the sector of organic-preparative synthesis particularly with regard to peptide-, carbohydrate- and nucleoside chemistry.

We are able to perform special short-termed syntheses on the basis of your individual requirements.

Therefore, do not hesitate to ask our custom synthesis team for your individual quotation or technical questions required for your project:

Telephone: ++49 (0) 30 765 925 0
Telefax: ++49 (0) 30 765 925 55
E-Mail: info@quartett.com



7.1 Peptide Services

7.1.1 Custom Peptide Synthesis

▶ Manual and automatic **solid phase peptide synthesis (SPPS)** following the Fmoc strategy up to 30 amino acids using state of the art derivatives and additives if necessary (e.g. Hmb backbone amide protective group); longer peptides on special request

▶ Peptide synthesis **in solution** until eight amino acids from 100 mg to 100 g

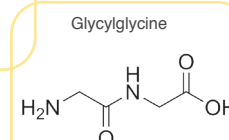
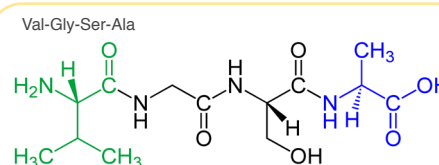
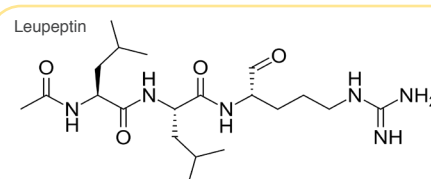
▶ Solid phase fragment condensation

▶ Custom synthesis of **highly purified peptides** (HPLC purity > 80 % and > 95 %) for enzymology or biological activity studies:

quartett offers peptides with a purity (HPLC, MS) > 80 % as well as > 95 %

useful for enzymology or biological activity studies ranging from 2 mg up to several grams

(on request). In general, delivery time for standard peptides with > 80 % purity is about 2 weeks and for peptides with > 95 % purity is approx. 3 weeks after receipt of official order. All peptides are controlled by HPLC-MS and supplied with documentation. For further services, such as modifications (phospho- or glycopeptides, FITC- or biotinlabeled peptides, cyclic peptides), other purities, lengths or amounts, we will provide you with a quotation according to your specifications.



- ▶ Custom synthesis of peptides with **immunograde purity** > 70 % for immunological and related purposes (e.g. ELISA testing, antibody production):
Careful preparation and choice of antigen is most important for your antibody production project. In addition, the quality of the chosen peptide correlates directly with the quality of raising antibodies. **quartett** is pleased to provide you with high quality peptides as well as antibody production services itself. Coupling peptides to standard carrier proteins with higher mass (KLH or BSA) is also possible which ensures maximum antigenicity as degradation by the host animal is decreased. Our peptide services are separately available as well as in combination with antibody production services. In general, delivery time for standard peptides with > 70 % purity is about 2 weeks after receipt of official order. All peptides are controlled by HPLC-MS and supplied with documentation.
- ▶ Custom synthesis of **peptide libraries** in units of 1 - 2 mg in 96 well microplates with a purity > 70 % (see chapter 10.1.4.).

7.1.2 Modification and Derivatization of Peptides

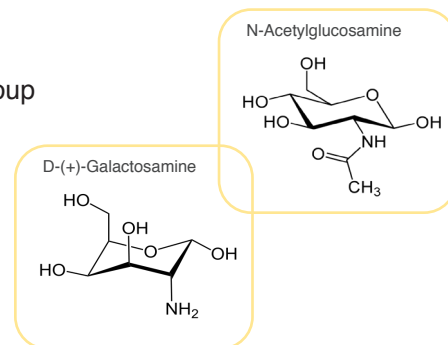
- ▶ Acetylation
- ▶ Synthesis of peptide aldehydes, peptide amides, and peptide thioesters (e.g. for use in native chemical ligation)
- ▶ Synthesis of protease inhibitors
- ▶ Synthesis of O-linked and N-linked glycopeptides (e.g. O-glycosyl-Ser and N-glycosyl-Asn)
- ▶ Synthesis and implementation of Fmoc-Asn(Ac3GlcNAc)-OH and variants as a model for glycopeptides
- ▶ [3+2]-cycloaddition of alkinylpeptides to sugarazides (“click-reaction”) resulting in neoglycoproteins
- ▶ Phosphorylation
- ▶ Biotin-labeling
- ▶ Glycosylation of peptides
- ▶ Integration of D- and b-amino acids
- ▶ Integration of other non-proteinogenic amino acids (e.g. propargylglycine)
- ▶ Coupling of peptides to proteins (e.g. KLH, BSA for antibody production) and to enzymes
- ▶ Implementation of spacers for peptide conjugates
- ▶ Fluorescein-labeling of peptides

7.1.3 Isolation and Purification of Peptides

- ▶ Chromatography (preparative HPLC, column chromatography)
- ▶ Development of methods for isolation and purification of pharmaceutical relevant compounds

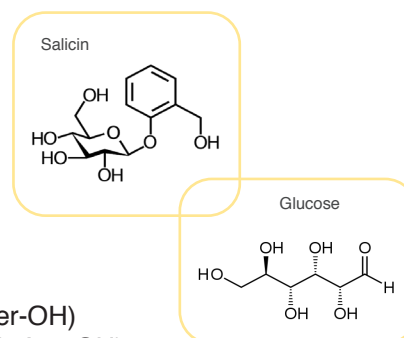
7.2 Sugar Amino Acids (SAAs)

- ▶ Synthesis of building blocks containing at least one carboxyl- and amino group
- ▶ Synthesis of linear and cyclic homo- and hetero-oligomers containing SAAs
- ▶ SAAs as turn as well as peptide mimetics
- ▶ SAAs as carbohydrate mimetics
- ▶ SAAs as scaffolds
- ▶ Backbone or sidechain modification of cyclic peptides containing SAAs
- ▶ Incorporation of SAAs in biological active peptides
- ▶ Synthesis of cyclodextrin mimetics



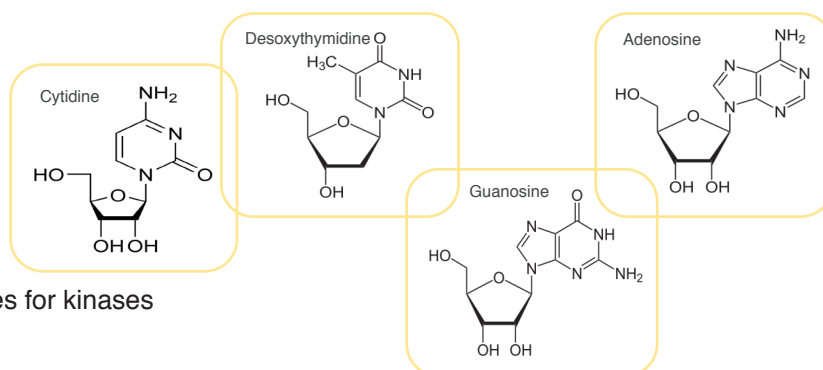
7.3 Carbohydrates

- ▶ Synthesis of complex carbohydrate building blocks
- ▶ Synthesis of inhibitors (e.g. glycosidase inhibitors)
- ▶ Synthesis of protected and unprotected O,N,S-glycosides
- ▶ Synthesis of C-glycosides
- ▶ Synthesis of glycosyl acceptors and donors for O,S-glycosylation
- ▶ O- and C-alkylation reactions
- ▶ Coupling of carbohydrates (e.g. desoxyhalo) to aromatic compounds
- ▶ 1,4-addition (e.g. Michael condensation reaction)
- ▶ Preparation of phosphates and phosphonates
- ▶ Building blocks for O-glycopeptides (e.g. N-Fmoc-O-(Ac3-a-D-GalNAc)-L-Ser-OH)
- ▶ Building blocks for N-glycopeptides (e.g. 2-N-Fmoc-4-N-(Ac3-b-D-GlcNAc)-L-Asn-OH)
- ▶ Optimization of methods for glycosylation
- ▶ Carbohydrates as scaffolds



7.4 Nucleosides

- ▶ Individual modification of nucleobases
- ▶ Selective modification of sugar residues
- ▶ Modified nucleosides as substrate analogues for kinases



7.5 Custom Antibody Production Services

quartett is pleased to offer a comprehensive antibody production service according to your specifications. The service starts with a free consultation and advice regarding the best course of action to achieve optimum results. If desired, custom peptide synthesis is included. Next steps are immunization, bleed ELISA testing and antibody despatch at the required time. As a complementary service **quartett** can purify the antibodies by several methods, conjugate to fluorochromes and enzymes or biotinylate. In addition, we are always willing to discuss further requirements.

7.5.1 Polyclonal Antisera and Antibodies from Rabbit

Careful preparation and choice of antigen is most important for your antibody production project. In addition, the quality of the chosen peptide correlates directly with the quality of raising antibodies. **quartett** is pleased to provide you with high quality peptides synthesized by solid phase peptide synthesis. Coupling peptides to standard carrier proteins with higher mass (KLH or BSA) is also possible which ensures maximum antigenicity as degradation by the host animal is decreased. Please ask for our peptide services which are also separately available.

Procedure:

- ▶ Free consultation to prepare your individual quotation
- ▶ Peptide synthesis and conjugation of peptides or haptens with carrier (KLH, BSA, OVA etc.)
- ▶ Immunization of 2 rabbits
- ▶ Isolation of total IgG or IgY, affinity chromatographic purification with protein A-carrier
- ▶ Isolation of specific IgG or IgY, affinity chromatographic purification with antigen-carrier
- ▶ Testing of titre per ELISA
- ▶ Complete documentation of the experiments

7.5.2 Monoclonal Mouse Antibodies

Procedure:

- ▶ Free consultation to prepare your individual quotation
- ▶ Immunization of balb/c mice
- ▶ Cultivation of myeloma cells and yield of B-cells
- ▶ Fusion of myeloma and B-cells to generate hybridoma cells
- ▶ HAT-selection of hybridoma cells
- ▶ Primary and secondary screening for antibody-producing cells by ELISA testing
- ▶ Sub-cloning and expansion
- ▶ Freezing to cryo cultures for long term storage of clones
- ▶ Complete documentation of the experiments

7.5.3 Monoclonal Rabbit Antibodies

Procedure:

- ▶ Free consultation to prepare your individual quotation
- ▶ Immunization of rabbits
- ▶ Cultivation of fusion partner cells and yield of B-cells
- ▶ Fusion to generate hybridoma cells
- ▶ Screening for antibody-producing cells by ELISA testing
- ▶ Characterization of antibody application (IHC, WB, ICC, IP, etc.)
- ▶ Sub-cloning and expansion
- ▶ Freezing to cryo cultures for long term storage of clones
- ▶ Complete documentation of the experiments

7.5.4 Modification of Mono- and Polyclonal Antibodies

Procedure:

- ▶ Conjugation of antibodies with enzymes (peroxidase, alkaline phosphatase)
- ▶ Labeling of antibodies with fluorescent markers
- ▶ Labeling of antibodies with biotin and derivatives
- ▶ Gold labeling of antibodies
- ▶ Coating of carriers with antibodies
- ▶ Fragmentation of antibodies

Don't hesitate to contact us, if you can't find the required type of modification.



8. Cosmetics



8.1 YOUmeDERM® Care Products

YOUmeDERM® hand balm

Finest hand care for stressed skin

Next to supply with chemicals **quartett** feels responsible for the health of its customers. Due to daily handling in the laboratory with gloves and aggressive substances, such as disinfectants or solvents, hands get dry and rough which is the basis for skin illnesses. Prevalence and incidence of skin illnesses increase each year. Since the hands are the most important tools in working life, the skin needs a special protection and care. Any moisture loss during work has to be replaced.

YOUmeDERM® Handbalm is a natural product made of finest coconut butter and natural oils, such as sesame oil. The handmade care product enters perfectly the intercellular spaces between cornea cells and generates the barrier layer of the corneum stratum with its high content of phytosterol and linoleic acid. The skin's own rebuilding processes are stimulated, barrier as well as cornification disorders are prevented, and increased elasticity is provided. Containing tocopherol it is fighting free radicals, thus preventing the skin additionally. The product protects stressed irritated hands against any moisture loss and leaves a pleasant soft skin feeling. Combined with a light fragrance of bergamot YOUmeDERM® products create an oasis of regeneration for your hands.



YOUmeDERM® Handbalm

Cat. No. KHB 1030

Quantity 30 ml

Ingredients Cocos Nucifera Oil (Coconut Oil), Sesamum Indicum Seed Oil (Sesame Oil), Cera alba (Beeswax), Parfume, Glyceryl Stearate, Tocopherol (Vit. E), Lecithin, Ascorbylpalmitate, Citric Acid, Limonene*, Linalool*, Hexylcinnamal, Butylphenol Methylpropional, Benzyl Salicylate, Geraniol*, Coumarin, Citral*, Alpha-Isomethyl Ionone, Eugenol (*as component of natural oils) *Contains no preservatives!*

9. Conditions of Supply

9.1 Address

quartett Immunodiagnostika, Biotechnologie + Kosmetik Vertriebs GmbH
Schichauweg 16
12307 Berlin
Germany

Telephone: ++49 (0) 30 765 925 0
Telefax: ++49 (0) 30 765 925 55
E-Mail: info@quartett.com
Web: www.quartett.com • www.youmederm.com

9.2 Orders

Orders can be placed by fax or by e-mail. Customers with a customer identification number can place their order by phone, too. Orders by telephone must be followed by confirmation in writing clearly marked as confirmation. **quartett** shall not be liable for duplicated deliveries. Purchase orders are executed exclusively to our delivery- and payment conditions.

The following information are necessary for placing an order:

- ▶ Shipping address
- ▶ Billing address
- ▶ Name of ordering person and phone or fax no.
- ▶ Name of receiving person, incl. building no., room no. and phone no.
- ▶ Purchase no.
- ▶ Opening hours of receiving dept.
- ▶ Catalog no., name of product and quantity
- ▶ Delivery due date
- ▶ VAT ID no.
- ▶ License for shipping of radioactive material
- ▶ Emergency phone no. for shipping of dangerous goods

9.3 Shipments

Shipments will be done by mail, local carriers, or courier services. Orders placed until 12.00 noon will be shipped same day in Germany, 48 hours throughout Europe and in less than 72 hours worldwide, depending on stock situation.

9.4 Shipping Charges

Products are shipped ex work Berlin, Germany. Shipping charges depend on original weight or gross weight. Charges will be added to the invoice. Extra charges for shipping on dry ice, dangerous goods or express deliveries will be added to the invoice. **quartett** has the right to ship orders the easiest and shortest way, minimizing freight costs, insuring stability and safety of the product. Packing is invoiced separately and is non-returnable.

9.5 Prices

Prices are according to the actual price list or are provided by the local distributor. Old price lists become invalid with the publication of a new one. Prices are excluding bank charges for international shipments, special shipping services, and VAT. Discounts are provided on large volume orders, bulk orders, or standing orders. Discounts are available for medical student schools and research projects.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE!

9.6 Payment and Credit Terms

Unless otherwise agreed in writing, payment in full of all goods is due within 10 days of invoice date without discount. Payment can be done by credit card (VISA, Mastercard), check or by wire transfer. For European customers payment will be accepted in EUR, for oversea customers in USD. Overdue amounts are subject to carry charges at 5 % above base lending rate of the DEUTSCHE BANK.

9.7 Returns and Cancellation

Neither goods are to be returned nor can orders be cancelled without prior agreement. No return of products will be authorized, if product meets specification. **quartett** reserves the right to charge a re-stocking or cancellation fee.

9.8 Limited Warranty

All products are for *in vitro* research use only, unless they are labeled as IVD approved products for diagnostic procedures. Goods are sold, and service, information as well as advice rendered on the understanding that the customer is solely responsible for determining the suitability of the goods for the purpose for which they intend to use them. The sole and exclusive remedy of the customer is limited to the replacement of the goods or the refund of the invoice price of the goods, less a re-stocking fee if appropriate. The entire risk as to the performance of these products is assumed by the buyer. **quartett** shall not be liable for indirect special or consequential damages of any kind resulting from use of the products. We do not take responsibility for any possible damage including personal injury, time or effort on economic loss caused by this product. Our warranty is limited to the price paid for the product. The product may only be used by authorized and skilled personnel.

9.9 Breakages and Shortages

Breakages in transit or shortages of delivered goods must be notified to **quartett** immediately after receipt of goods.

9.10 Reservation of Property Rights

quartett reserves the ownership of delivered goods until full payment has been effective. Preventive transference and preventive sale or mortgage of goods being reserved as our property is inadmissible. Assumption of receivables into a current account by acknowledgment of the balance does not affect the retention of ownership.

9.11 Liabilities and Conditions

Placing the order the buyer gives his agreement to our above sales terms. Opposing or deviating conditions of the buyer and oral collateral agreements are only binding, if we have agreed to them in writing.

9.12 Applicable Law, Jurisdiction and Partial Invalidity

Solely the laws of the Federal Republic of Germany shall apply for these terms and conditions and all legal relationships between us and the customer. Venue is Berlin-Charlottenburg. In the event that any one provision of these terms and conditions of trade or a provision within the framework of other agreements reached between us and the customer is or becomes invalid, the validity of all other provisions of these terms and conditions of trade or other agreements shall remain unaffected thereby.

9.13 Technical Support

Our customer service is responsible to assist you, if you encounter a problem or have a product related question.



quartett Immunodiagnostika, Biotechnologie + Kosmetik Vertriebs GmbH

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12307 Berlin
Germany

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Fax: +49 (0)30 765925-55
E-Mail: info@quartett.com

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