



Product Catalog 2019

Antibodies and antigens



Introduction

OVER 25 YEARS OF REALIZING SUCCESS THROUGH SCIENCE AND COMMITMENT. Since 1994, we have developed and supplied immunological reagents for the IVD industry and research community. Nowadays, we provide products for several clinical and research areas, and are proud to be a leading provider of reagents for troponin I immunoassays, as well as for certain infectious diseases.

QUALITY - FROM DEVELOPMENT TO DELIVERIES. We are renowned for uncompromised quality that extends from product development to safe and secure deliveries worldwide. Continuous investment in scientific research forms a solid foundation for our product development, and our ISO9001 certified operations ensure that our products meet the highest levels of quality that you expect.

WORLD CLASS SERVICE. We aim to provide excellent customer service for our industrial and research customers. Our dedicated Tech Support team is ready to answer your questions and additional information about our products is available on our website. You can also find out more about our product features and the applications for which our products are suitable in our TechNotes.

To serve our customers in China, we have had a subsidiary in Shanghai operating since 2011. Going forward, we are continuing to develop and expand our team in Shanghai and improve the operations in order to provide an even better service to our customers.

From the science in our hearts to a healthier world together with you. At HyTest, we have a complete understanding of the needs of both our industrial partners and the research community. This is why we are able to help our customers achieve success. And this explains why most of the major diagnostic companies rely on HyTest's ability to supply the best reagents in the world.

2019 is a special year for everyone at HyTest as it will mark the company's 25th anniversary! To commemorate this special occasion, we want to make our mission even more visible through our Challenge25 campaign. Visit our website to find out more about how we have challenged ourselves and make sure you check in on a regular basis throughout the year to see how we are progressing with our exciting journey!

<https://www.hytest.fi/campaign-2019>





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Pregnancy-associated plasma protein-A (dPAPP-A)
Myoglobin
Insulin-like growth factor binding protein 4 (IGFBP-4)
Fatty acid binding protein (FABP)
Myeloperoxidase (MPO)
C-reactive protein (CRP)
Soluble CD40 ligand (sCD40L)
Glycogen phosphorylase isoenzyme BB (GPBB)
Soluble lectin-like oxidized LDL receptor (sLOX-1)



Blood coagulation & Anemia 19

D-dimer
Erythropoetin
Ferritin
Fibrinogen
Fibrinopeptide A
Folic acid
Human serum albumin (HSA)
Plasminogen
Transferrin
Transferrin receptor



Metabolic Syndrome

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Adiponectin
C-peptide, human
C-peptide, rat
Ghrelin
Hemoglobin, HbA_{1c}, HbA_{1c}
Insulin
Insulin/Proinsulin, rat-mouse
Leptin
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Proinsulin, rat



Kidney Diseases

22

Cystatin C
Human serum albumin (HSA)
Kidney injury molecule-1 (KIM-1)
Retinol-binding protein 4 (RBP4)



Fertility and Pregnancy

23

Alpha-fetoprotein (AFP)
Human chorionic gonadotropin (HCG)
Insulin-like growth factor binding protein 1 (IGFBP-1)
Mullerian inhibiting substance receptor (MISR)
Pregnancy-associated plasma protein-A (htPAPP-A)



Hormones

24

17b-estradiol
Calcitonin
Cortisol
Dopamine
Erythropoetin
Follicle stimulating hormone (FSH)
Growth hormone (hGH)
Human chorionic gonadotropin (HCG)
Lactoferrin
Luteinizing hormone (LH)
Progesterone
Prolactin
Testosterone
Thyroid stimulating hormone (TSH)
Thyroxine (T4)
Triiodothyronine (T3)



Tumor Markers

25

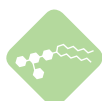
Alpha-fetoprotein (AFP)
 Angiostatin
 CA-125
 CA15-3
 CA19-9
 CA72-4
 Carcinoembryonic antigen (CEA)
 CYFRA21-1
 Erythroblastic leukemia viral oncogene homolog 2 (Erb-2, HER2/neu)
 Human chorionic gonadotropin (HCG)
 Human epididymis protein 4 (HE4)
 Human papillomavirus (HPV)
 Mucin-1 glycoprotein (MUC1)
 Neuron specific enolase (NSE)
 Prostate-specific antigen (PSA)
 Thyroglobulin



Neuroscience

27

Beta-amyloid
 Calmodulin
 Cu/Zn superoxide dismutase (Cu-Zn-SOD)
 Dopamine
 Glial fibrillary acidic protein (GFAP)
 Myelin basic protein (MBP)
 Neuron specific enolase (NSE)
 Non-neuronal enolase (NNE)
 S100 protein



Gangliosides

28

GM1, GM2, GM3, GM4, GD1a, GD1b, GD2, GD3,
 GQ1b, GT1a, GT1b, GD1a-NAcGal
 Ganglioside GM1 sphinganine
 Globoside



Immunology and Serology

29

IgA, IgE, IgG, IgM
 Kappa and lambda chains
 Myeloperoxidase (MPO)
 Ovine IgG and IgM
 Thyroid peroxidase (TPO)



Inflammation

30

Calcitonin
 C-reactive protein (CRP)
 Epidermal growth factor (EGF)
 Interferons
 Interleukins
 Procalcitonin (PCT)
 Serum amyloid A (SAA)
 Tumor necrosis factor (TNF), alpha



Infectious Diseases

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Influenza A and B
 Other acute respiratory diseases (ARD)
 Adenovirus
 Newcastle disease virus (NDV)
 Parainfluenza
 Respiratory syncytial virus (RSV)
Mycobacterium tuberculosis
 Malaria
 TORCH
 Cytomegalovirus
 Herpes simplex virus
 Rubella virus
 Toxoplasma gondii
 Foodborne pathogens
 Adenovirus
 Astrovirus
 Caliciviridae (norovirus)
 Campylobacter jejuni
 Helicobacter pylori
 Listeria monocytogenes
 Rotavirus
 Salmonella
 Sexually transmitted diseases (STD)
 Candida albicans
 Herpes simplex virus
 Human papillomavirus (HPV)
 Treponema pallidum
 Hepatitis



Veterinary

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Adenovirus
 Astrovirus
Borrelia burgdorferi
 Bovine corona virus
Brucella abortus
Burkholderia mallei and *pseudomallei*
 Calmodulin
 Canine CRP (cCRP)
 Canine distemper virus (CDV)
 Canine parvovirus (CPV)
 Cortisol
 Cystatin C
 Foot-and-mouth disease virus (FMDV)
 Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)
 Infectious bronchitis virus (IBV)
 Infectious bursal disease virus (IBDV)
 Influenza A H5 and H7
 Insulin/Proinsulin
 Marek disease virus (MDV)
 Newcastle disease virus (NDV)
 NT-proBNP, canine
 Progesterone
 Proinsulin, rat
 Rabies virus
 Retinol-binding protein 4 (RBP4)
 Rotavirus
 S100
 Serum amyloid A (SAA)
 Thyroglobulin, canine
 Thyroid stimulating hormone (TSH)
 Thyroxine (T4)
 Transmissible gastroenteritis (TGE) virus of pigs
 Triiodothyronine (T3)
 Troponin I
 Troponin T



Microbial and Plant Toxins

41

Aflatoxin
 Cholera toxin
Clostridium botulinum
 Diphtheria toxin
E. coli heat labile enterotoxin
 Microcystin-LR
 Ricin
Staphylococcus aureus enterotoxins
 Tetanus toxin



Biodefense

42

Bacillus anthracis
Ebola virus
Francisella tularensis
Marburg virus
Vaccinia virus
Yersinia pestis



Molecular Biology

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Miscellaneous

43

Chloramphenicol
Coxsackievirus B3
Cyclosporin
Egg white avidin
Fibronectin
FITC
FK 560
Galactosidase- β of *E. coli*
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)
Guanylate cyclase, human soluble (hsGC)
His6-tag
Horseradish peroxidase (HRP)
Immunoreactive trypsin (IRT)
Insulin-like growth factor binding protein 5 (IGFBP-5)
Legionella pneumophila
Osteocalcin
Streptavidin from *Streptomyces avidinii*

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Abbreviations used in the Catalog

a.a.r.	Amino acid residue
A/C	Affinity chromatography
C/r	Cross-reactivity, cross-reaction
EIA	Enzyme immunoassay
EPO	Erythropoetin
FC	Flow cytometry
FITC	Fluorescent isothiocyanate
FSH	Follicle stimulating hormone
HCG	Human chorionic gonadotropin
hGH	Human growth hormone
HIT	Haemagglutinin inhibition test
HK2	Human kallikrein 2
HSP	Heat shock protein
I-C	Troponin I - troponin C -complex
ID	Immunodiffusion
IF	Immunofluorescence
IHC	Immunohistochemistry
IP	Immunoprecipitation
I-T-C	Troponin I - troponin T - troponin C-complex
kDa	Kilodalton

LH	Luteinizing hormone
LPS	Lipopolysaccharide
MAb	Monoclonal antibody
MUC1	Mucin-1 glycoprotein
MW	Molecular weight
N/A	Not applicable
N/cr	No cross-reaction
PCT	Procalcitonin
PHA	Passive haemagglutination
PLA	Plaque-linked assay
proMBP	Proform of eosinophil major basic protein
RIA	Radioimmunoassay
SAA	Serum amyloid A
TnC	Troponin C
TnI	Troponin I
TnT	Troponin T
TSH	Thyroid stimulating hormone
VN	Virus neutralization
WB	Western blotting

Troponin I (TnI)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks	
Troponin I cardiac	4T21	P4-14G5	IgG1	EIA, WB, a.a.r. 1-15	
		916	IgG3	EIA, WB, a.a.r. 13-22	
		909	IgG1	EIA, WB, a.a.r. 18-22	
		M18	IgG1	EIA, WB, a.a.r. 18-28	
		801	IgG3	EIA, WB, a.a.r. 18-35	
		810	IgG1	EIA, WB, a.a.r. 22-31	
		4C2	IgG2a	EIA, WB, a.a.r. 23-29	
		3C7	IgG1	EIA, WB, a.a.r. 25-40	
		228	IgG1	EIA, WB, a.a.r. 26-35	
		M155	IgG1	EIA, WB, a.a.r. 26-35	
		820	IgG1	EIA, WB, a.a.r. 26-35	
		10F4	IgG2a	EIA, WB, a.a.r. 34-37	
		19C7	IgG2b	EIA, WB, a.a.r. 41-49	
		247	IgG1	a.a.r. 65-74, only free cTnI	
		560	IgG1	EIA, WB, a.a.r. 83-93	
		16A12	IgG1	EIA, WB, a.a.r. 86-90	
		8E10	IgG1	EIA, WB, a.a.r. 86-90	
		16A11	IgG1	EIA, WB, a.a.r. 86-90	
		17F3	IgG1	EIA, WB, a.a.r. 87-90	
		84	IgG1	EIA, WB, a.a.r. 117-126	
		M46	IgG1	EIA, WB, a.a.r. 130-145, <10 % C/r with skeletal troponin I	
		625	IgG1	EIA, WB, a.a.r. 169-178	
		458	IgM	EIA, WB, a.a.r. 169-178	
		596	IgG1	EIA, WB, a.a.r. 169-178, <10 % C/r with skeletal troponin I	
		267	IgG2a	EIA, WB, a.a.r. 169-178, <10 % C/r with skeletal troponin I	
		C5	IgG2b	EIA, WB, a.a.r. 186-192, >50 % C/r with skeletal troponin I	
		MF4	IgG1	EIA, WB, a.a.r. 190-196	
		p45-10	IgG1	EIA, WB, a.a.r. 195-209	
			4T21cc	4C2cc	IgG2a
		M155cc		IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 26-35
		19C7cc		IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 41-49
		560cc		IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 83-93
		16A12cc		IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 86-90
	16A11cc	IgG1		<i>In vitro</i> , EIA, WB, a.a.r. 86-90	
	MF4cc	IgG1		<i>In vitro</i> , EIA, WB, a.a.r. 190-196	
	RC4T21	RecChim19C7	IgG1	EIA, recombinant chimeric antibody	
		RecChim16A11	IgG1	EIA, recombinant chimeric antibody	
Troponin I cardiac, phosphorylated form	4T45	1G11	IgG2b	EIA, WB, a.a.r. N/A	
Troponin I cardiac, dephosphorylated form	4T46	22B11	IgG2b	EIA, WB, a.a.r. 20-24	
Troponin complex, human native cardiac	4TC2	20C6	IgG2b	EIA	
		Tcom8	IgG1	EIA	
Troponin I skeletal muscle	4T20	12F10	IgG2b	EIA, WB	
		7G2	IgG2b	EIA, WB	

Troponin I (TnI)

POLYCLONAL ANTIBODY

Product name	Cat. #	Host Animal	Remarks
Troponin I cardiac	4T21/2	goat	EIA

HUMAN ANTIGENS

Product name	Cat. #	Purity	Source
Troponin I cardiac, human	8T53	>98%	Human cardiac muscle
Troponin I cardiac, human, recombinant	8RT17	>95%	Recombinant
Troponin I cardiac, dephosphorylated	8T53dp	>95%	Human cardiac muscle
Troponin I cardiac, phosphorylated	8T53ph	>95%	Human cardiac muscle
Troponin complex (I-C)	8IC63	N/A	Human cardiac muscle
Troponin complex (I-T-C), human	8T62	N/A	Human cardiac muscle
Troponin complex (I-T-C), artificial	8T62a	N/A	Human cardiac muscle
Troponin I cardiac Calibrator Set	8T60	N/A	Suggested range from 0 ng/ml to 100 ng/ml
Troponin I cardiac Diversity Kit	K01	N/A	Different forms of human cardiac troponin I
Troponin I skeletal muscle, human	8T25	>95%	Human skeletal muscle

ANIMAL ANTIGENS

Product name	Cat. #	Purity	Source
Troponin I cardiac, bovine	8T53b	>98%	Bovine cardiac muscle
Troponin I cardiac, canine	8T53c	>98%	Canine cardiac muscle
Troponin I cardiac, mouse	8T53m	>98%	Mouse cardiac muscle
Troponin I cardiac, porcine	8T53p	>98%	Porcine cardiac muscle
Troponin I cardiac, rat	8T53r	>98%	Rat cardiac muscle
Troponin complex (I-T-C), canine	8T62c	N/A	Canine cardiac muscle
Troponin I skeletal muscle, bovine	8T25b	>95%	Bovine skeletal muscle
Troponin I skeletal muscle, canine	8T25c	>95%	Canine skeletal muscle
Troponin I skeletal muscle, mouse	8T25m	>95%	Mouse skeletal muscle
Troponin I skeletal muscle, porcine	8T25p	>95%	Porcine skeletal muscle
Troponin I skeletal muscle, rat	8T25r	>95%	Rat skeletal muscle

DEPLETED SERUM

Product name	Cat. #	Source
Troponin I free serum	8TFS	Pooled normal human serum

Troponin T (TnT)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Troponin T cardiac	4T19	9G6	IgG1	EIA, WB, a.a.r. 2-61
		7F4	IgG2b	EIA, WB, a.a.r. 67-86
		7G7	IgG1	EIA, WB, a.a.r. 67-86
		2F3	IgG2b	EIA, WB, a.a.r. 145-164
		1A11	IgG2b	EIA, WB, a.a.r. 145-164
		1F11	IgG2b	EIA, WB, a.a.r. 145-164
		1C11	IgG1	EIA, WB, a.a.r. 171-190
		7E7	IgG1	EIA, WB, a.a.r. 223-242
	4T19cc	300cc	IgG1	<i>In vitro</i> , EIA, a.a.r. 119-138
		329cc	IgG1	<i>In vitro</i> , EIA, a.a.r. 119-138
		406cc	IgG2a	<i>In vitro</i> , EIA, a.a.r. 132-151
		1F11cc	IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 145-164
		1C11cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 171-190
	RC4T19	RecChim406		EIA, recombinant chimeric antibody

New!

HUMAN ANTIGENS

Product name	Cat. #	Purity	Source
Troponin T cardiac, human	8T13	>98%	Human cardiac muscle
Troponin T cardiac, human, recombinant	8RTT5	>95%	Recombinant
Troponin T skeletal muscle, human	8T24	>95%	Human skeletal muscle
Troponin T fast skeletal, human, recombinant	8RFT4	>95%	Recombinant
Troponin T slow skeletal, human, recombinant	8RST2	>95%	Recombinant
Troponin complex (I-T-C), human	8T62	N/A	Human cardiac muscle
Troponin complex (I-T-C), artificial	8T62a	N/A	Human cardiac muscle

ANIMAL ANTIGENS

Product name	Cat. #	Purity	Source
Troponin T cardiac, bovine	8T13b	>98%	Bovine cardiac muscle
Troponin T cardiac, canine	8T13c	>98%	Canine cardiac muscle
Troponin T cardiac, mouse	8T13m	>98%	Mouse cardiac muscle
Troponin T cardiac, porcine	8T13p	>98%	Porcine cardiac muscle
Troponin T cardiac, rat	8T13r	>98%	Rat cardiac muscle
Troponin T skeletal muscle, bovine	8T24b	>95%	Bovine skeletal muscle
Troponin T skeletal muscle, canine	8T24c	>95%	Canine skeletal muscle
Troponin T skeletal muscle, mouse	8T24m	>95%	Mouse skeletal muscle
Troponin T skeletal muscle, porcine	8T24p	>95%	Porcine skeletal muscle
Troponin T skeletal muscle, rat	8T24r	>95%	Rat skeletal muscle

Troponin C (TnC)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Troponin C	4T27	7B9	IgG1	EIA, WB
	4T27cc	7B9cc	IgG1	<i>In vitro</i> , EIA, WB
Troponin complex, human native cardiac	4TC2	20C6	IgG2b	EIA
		Tcom8	IgG1	EIA

HUMAN ANTIGENS

Product name	Cat. #	Purity	Source
Troponin C, human	8T57	>98%	Human cardiac muscle
Troponin C slow skeletal/cardiac, human, recombinant	8RSC4	>95%	Recombinant
Troponin C skeletal, isoform 2, human, recombinant	8RKC3	>90%	Recombinant
Troponin complex (I-C)	8IC63	N/A	Human cardiac muscle
Troponin complex (I-T-C), human	8T62	N/A	Human cardiac muscle
Troponin complex (I-T-C), artificial	8T62a	N/A	Human cardiac muscle

ProBNP, BNP and NT-proBNP

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
BNP	4BNP2	24C5	IgG1	EIA, WB, a.a.r. 11-17
		26E2	IgG1	EIA, WB, a.a.r. 11-22
		50E1	IgG1	EIA, WB, a.a.r. 26-32
		50B7	IgG2a	EIA, WB, a.a.r. 26-32
		57H3	IgG2a	EIA, WB, a.a.r. 26-32
	4BNP2cc	429cc	IgG1	<i>In vitro</i> , EIA, a.a.r. 5-13
		100cc	IgG2a	<i>In vitro</i> , EIA, a.a.r. 10-15
		24C5cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 11-17
		130cc	IgG1	<i>In vitro</i> , EIA, a.a.r. 15-22
		50E1cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 26-32
		50B7cc	IgG2a	<i>In vitro</i> , EIA, WB, a.a.r. 26-32
Immune complex (24C5-BNP/proBNP)	4BFab5	Ab-BNP2	IgG2a	EIA (only as pair with MAb 24C5, Cat.# 4BNP2)
		Ab-BNP4	IgG2a	EIA (only as pair with MAb 24C5, Cat.# 4BNP2)
	4BFab5cc	Ab-BNP2cc	IgG2a	<i>In vitro</i> , EIA (only as pair with MAb 24C5, Cat.# 4BNP2)
NT-proBNP	4NT1	5B6	IgG1	EIA, WB, a.a.r. 1-12
		29D12	IgG2a	EIA, WB, a.a.r. 5-12
		15F11	IgG2b	EIA, WB, a.a.r. 13-24
		13G12	IgG2a	EIA, WB, a.a.r. 15-20
		18H5	IgG1	EIA, WB, a.a.r. 15-20
		16F3	IgG1	EIA, WB, a.a.r. 15-20
		7B5	IgG1	EIA, WB, a.a.r. 15-21
		11D1	IgG1	EIA, WB, a.a.r. 31-39
		16E6	IgG1	EIA, WB, a.a.r. 34-39
		15D7	IgG1	EIA, WB, a.a.r. 48-56
		15C4	IgG2b	EIA, WB, a.a.r. 63-71
		24E11	IgG2a	EIA, WB, a.a.r. 67-76
		28F8	IgG2a	EIA, WB, a.a.r. 67-76
	4NT1cc	29D12cc	IgG2a	<i>In vitro</i> , EIA, WB, a.a.r. 5-12
		15F11cc	IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 13-24
		13G12cc	IgG2a	<i>In vitro</i> , EIA, WB, a.a.r. 15-20
		18H5cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 15-20
		NT34cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 25-34
		15C4cc	IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 63-71
		24E11cc	IgG2a	<i>In vitro</i> , EIA, WB, a.a.r. 67-76

New!
New!

ANTIGENS

Product name	Cat. #	Purity	Source
NT-proBNP, recombinant	8NT2	>95%	Recombinant
ProBNP, recombinant	8PRO9	>95%	Recombinant
ProBNP, glycosylated, recombinant	8GBP3	>95%	Recombinant

New!

DEPLETED PLASMA

Product name	Cat. #	Source
BNP and NT-proBNP free plasma	8BFP	Pooled normal human plasma

Lipoprotein-associated phospholipase A2 (Lp-PLA2)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Lipoprotein-associated phospholipase A2	4LA7cc	PL4cc	IgG1	<i>In vitro</i> , EIA
		PL26cc	IgG1	<i>In vitro</i> , EIA, WB
		PL42cc	IgG1	<i>In vitro</i> , EIA
		PL46cc	IgG1	<i>In vitro</i> , EIA

ANTIGEN

Product name	Cat. #	Purity	Source
Lipoprotein-associated phospholipase A2, recombinant	8PL7	>75%	Recombinant

Pregnancy-associated plasma protein-A (PAPP-A)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Dimeric form of pregnancy-associated plasma protein A (dPAPP-A), human	4PD4	PAPP30	IgG1	EIA, dimeric form of PAPP-A only

Myoglobin

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Myoglobin	4M23	4E2	IgG1	EIA
		4E2cc	IgG1	<i>In vitro</i> , EIA
		7C3	IgG1	EIA
		1B4	IgG1	EIA

New!

ANTIGEN

Product name	Cat. #	Purity	Source
Myoglobin	8M50	>95%	Human cardiac muscle

DEPLETED SERUM

Product name	Cat. #	Source
Myoglobin free serum	8MFS	Pooled normal human serum

Insulin-like growth factor binding protein 4 (IGFBP-4)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Insulin-like growth factor binding protein 4	4IGF4	IBP3	IgG3	EIA
		IBP3cc	IgG3	<i>In vitro</i> , EIA
		IBP144	IgG2a	EIA
		IBP154	IgG2a	EIA
		IBP163	IgG1	EIA
		IBP180	IgG2a	EIA
		IBP182	IgG2b	EIA
		IBP185	IgG2b	EIA
		IBP190	IgG1	EIA

New!

ANTIGENS

Product name	Cat. #	Purity	Source
Insulin-like growth factor binding protein 4, N-terminal fragment (NT-IGFBP-4), human, recombinant	8NGP4	≥90%	Recombinant
Insulin-like growth factor binding protein 4, C-terminal fragment (CT-IGFBP-4), human, recombinant	8ILG4	≥90%	Recombinant

New!

New!

Fatty acid binding protein (FABP)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Fatty acid binding protein	4F29	5B5	IgG1	EIA
		9F3	IgG1	EIA
		10E1	IgG1	EIA
		22	IgG1	EIA, WB
		25	IgG1	EIA
		28	IgG1	EIA
		30	IgG1	EIA, WB
		31	IgG1	EIA, WB

ANTIGEN

Product name	Cat. #	Purity	Source
Fatty acid binding protein	8F65	>95%	Human cardiac muscle

DEPLETED SERUM

Product name	Cat. #	Source
Fatty acid binding protein free serum	8FFS	Pooled normal human serum

Myeloperoxidase (MPO)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Myeloperoxidase	4M43	4A4	IgG2b	EIA, WB
		18B7	IgG1	EIA, WB
		4B3	IgG1	EIA
		16E3	IgG1	EIA
		17G2	IgG2b	EIA
		19G8	IgG1	EIA

ANTIGEN

Product name	Cat. #	Purity	Source
Myeloperoxidase	8M80	>90%	Human leucocyte mass

DEPLETED SERUM

Product name	Cat. #	Source
Myeloperoxidase free serum	8MPFS	Pooled normal human serum

C-reactive protein (CRP)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
C-reactive protein	4C28	C1	IgG2b	EIA, WB , high sensitivity
		C2	IgG1	EIA, high sensitivity
		C3	IgG1	EIA, IHC, Ca ²⁺ dependent, high sensitivity
		C4	IgG1	EIA, Ca ²⁺ dependent, high sensitivity
		C5	IgG1	EIA, high sensitivity
		C6	IgG2a	EIA, high sensitivity
		C7	IgG1	EIA, IHC, high sensitivity
		CRP11	IgG1	EIA, WB
		CRP30	IgG1	EIA, low affinity
		CRP36	IgG2a	EIA, WB, IHC
		CRP103	IgG2b	EIA, low affinity
		CRP135	IgG2b	EIA, high sensitivity
		CRP169	IgG2a	EIA, WB
	4C28cc	C2cc	IgG1	<i>In vitro</i> , EIA, high sensitivity
		C6cc	IgG2a	<i>In vitro</i> , EIA, high sensitivity
		CRP30cc	IgG1	<i>In vitro</i> , EIA, low affinity

New!

ANTIGEN

Product name	Cat. #	Purity	Source
C-reactive protein	8C72	>95%	Human pleural/ascitic fluid or plasma

DEPLETED SERUM

Product name	Cat. #	Source
C-reactive protein free serum	8CFS	Pooled normal human serum

Soluble CD40 ligand (sCD40L)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Soluble CD40 ligand	4CD40	1H4	IgG1	EIA
		2A3	IgG1	EIA

Glycogen phosphorylase isoenzyme BB (GPBB)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Glycogen phosphorylase BB isoenzyme	4GP31	1G6	IgG2b	EIA, WB, BB isoenzyme
		6F1	IgG1	EIA, WB, BB and MM isoenzyme

Soluble lectin-like oxidized LDL receptor (sLOX-1)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Soluble lectin-like oxidized LDL receptor	4LOX1	LOX19-22	IgG1	EIA, WB

Blood Coagulation and Anemia

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
D-dimer	4D30	DD1	IgG2a	EIA, WB, N/cr with fibrinogen
		DD2	IgG2b	EIA, WB, N/cr with fibrinogen
		DD3	IgG2b	EIA, WB, N/cr with fibrinogen
		DD4	IgG2b	EIA, WB, C/r with fibrinogen
		DD5	IgG2b	EIA, WB, C/r with fibrinogen
		DD6	IgG2a	EIA, WB, C/r with fibrinogen
		DD22	IgG2a	EIA, WB, N/cr with fibrinogen
		DD41	IgG2a	EIA, WB, N/cr with fibrinogen
		DD41cc	IgG2a	<i>In vitro</i> , EIA, WB, N/cr with fibrinogen
		DD44	IgG2b	EIA, WB, N/cr with fibrinogen
		DD46	IgG2a	EIA, WB, N/cr with fibrinogen
		DD93	IgG1	EIA, WB, N/cr with fibrinogen
		DD189	IgG1	EIA, WB, N/cr with fibrinogen
		DD255	IgG1	EIA, WB, N/cr with fibrinogen
Erythropoetin	4ER1	Epo1	IgG1	EIA, WB
		Epo2	IgG1	EIA
		B2A5	IgG1	EIA
		C3B6	IgG1	EIA
		D5C8	IgG1	WB
		F5E8	IgG2a	EPO purification
Ferritin	4F32	F23	IgG3	EIA
		F31	IgG2b	EIA
Fibrinogen	4F1	1F3	IgG2b	EIA, WB
		27C8	IgG2a	EIA, WB
		40F11	IgG2b	EIA, WB
Fibrinopeptide A	4FP1	1F7	IgG2a	EIA, WB
		49D2	IgG2a	EIA, WB
Folic acid	5FA3	FA1	IgG1	Competitive EIA
		FA2	IgG2a	Competitive EIA
		FA3	IgG1	Competitive EIA
Human serum albumin (HSA)	4T24	1C8	IgG1	EIA, WB
		15C7	IgG2b	EIA, WB
		1A9	IgG2a	EIA, WB
		6B11	IgG2a	EIA, WB
		14E7	IgG2b	EIA, WB
		HSA11	IgG1	EIA, WB
		HSA20	IgG1	EIA, WB
	4T24cc	15C7cc	IgG2b	<i>In vitro</i> , EIA, WB
Plasminogen	4P11	5H3	IgG1	EIA, IHC
		8E7	IgG1	EIA, IHC
		8F11	IgG1	EIA, IHC
		3C2	IgG1	EIA, IHC

New!



Blood Coagulation and Anemia

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Transferrin	4T15	2A2	IgG1	EIA
		1C10	IgG1	EIA
		8B9	IgG1	EIA, WB
		11D3	IgG1	EIA, WB
		12A6	IgG1	EIA, WB
Transferrin receptor	4Tr26	2B6	IgG2a	EIA, WB
		11F5	IgG2b	EIA, WB
		13E4	IgG2a	EIA, WB
		23D10	IgG2b	EIA, WB
	4Tr26cc	11F5cc	IgG2b	<i>In vitro</i> , EIA, WB
		13E4cc	IgG2a	<i>In vitro</i> , EIA, WB

ANTIGENS

Product name	Cat. #	Purity	Source
D-dimer	8D70	>90%	Human plasma
Transferrin receptor, soluble	8Tr56	>95%	Human plasma
Transferrin receptor, soluble, recombinant	8ST6	>95%	Recombinant



Metabolic Syndrome

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Adiponectin, human	2AN6	Adn23	IgG2a	WB
		Adn27	IgG2a	EIA
		Adn36	IgG2a	EIA
		Adn63	IgG1	EIA, WB
		Adn94	IgG1	EIA
		Adn279	IgG1	EIA
		Adn305	IgG1	EIA
C-peptide, human	2I2	1H8	IgG1	EIA, N/cr with insulin
		2B7	IgG1	EIA, N/cr with insulin
		4H8	IgG1	EIA, N/cr with insulin
		5B8	IgG1	EIA, N/cr with insulin
		7E10	IgG1	EIA, N/cr with insulin
		2A11	IgG1	EIA, N/cr with insulin
C-peptide, rat	2I3	CC27	IgG1	EIA
		CC34	IgG1	EIA
		CII-11	IgG1	EIA
		CII-29	IgG1	EIA
		CII-55	IgG1	EIA
Ghrelin	2GH1	Ghr5	IgG2a	EIA
		Ghr6	IgG2b	EIA
Hemoglobin, human, HbA _{1c}	4HHO	Hb4	IgG1	EIA
		Hb6	IgG1	EIA
Hemoglobin, human, glycated, HbA _{1c}	4HA1	75C9	IgG1	EIA
Insulin, human	2I1	7F5	IgG1	EIA
		C7C9	IgG1	C-terminal pentapeptide of β -chain
		D4B8	IgG1	EIA, IHC
		7F8	IgG1	EIA
		3A6	IgG1	EIA
		8E2	IgG1	EIA
Insulin/Proinsulin, rat-mouse	2IP10	D6C4	IgG1	EIA, IHC
		D3E7	IgG1	EIA, IHC
	2IP10cc	D6C4cc	IgG1	<i>In vitro</i> , EIA, IHC
		D3E7cc	IgG1	<i>In vitro</i> , EIA, IHC
Leptin, human	2LE1	3G7	IgG1	EIA, WB
		4F12	IgG1	EIA, WB
Proinsulin, human	2P9	3A1	IgG1	EIA, IHC
		1G4	IgG1	EIA, IHC
		1D6	IgG1	EIA
Proinsulin, rat	2PR8	CCI-17	IgG1	EIA

ANTIGENS

Product name	Cat. #	Purity	Source
Adiponectin, human	8AN7	>95%	Pooled human plasma



Kidney Diseases

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Cystatin C	4CC1	Cyst10	IgG3	EIA
		Cyst11	IgG1	EIA
		Cyst13	IgG1	EIA, WB
		Cyst16	IgG1	EIA
		Cyst19	IgG1	EIA, WB
		Cyst20	IgG1	EIA
		Cyst23	IgG1	EIA
		Cyst24	IgG1	EIA
		Cyst28	IgG1	EIA
		Cyst29	IgG2a	EIA
Human serum albumin (HSA)	4T24	1C8	IgG1	EIA, WB
		15C7	IgG2b	EIA, WB
		1A9	IgG2a	EIA, WB
		6B11	IgG2a	EIA, WB
		14E7	IgG2b	EIA, WB
		HSA11	IgG1	EIA, WB
		HSA20	IgG1	EIA, WB
	4T24cc	15C7cc	IgG2b	<i>In vitro</i> , EIA, WB
Kidney injury molecule-1 (KIM-1)	4KM1	KIM70	IgG1	EIA, WB
		KIM75	IgG1	EIA, WB
Retinol-binding protein 4 (RBP4)	4RB2	RB42	IgG1	EIA, WB
		RB45	IgG1	EIA, WB
		RB48	IgG1	EIA, WB
		RB55	IgG1	EIA, WB

POLYCLONAL ANTIBODY

Product name	Cat. #	Host Animal	Remarks
Cystatin C	PCC2	sheep	EIA, WB, IP

ANTIGENS

Product name	Cat. #	Purity	Source
Cystatin C, human, recombinant	8CY5	>95%	Recombinant
Cystatin C, human	8CN4	>95%	Pooled human serum Available only in research amounts
Retinol-binding protein 4 from human plasma, free form	8RF9	>95%	Pooled human plasma
Retinol-binding protein 4 from human plasma, complexed with prealbumin	8RP7	>70%	Pooled human plasma

DEPLETED SERUM

Product name	Cat. #	Source
Cystatin C free serum	8CCFS	Pooled normal human serum



Fertility and Pregnancy

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Alpha-fetoprotein (AFP)	4F16	5H7	IgG1	EIA, WB
		4A3	IgG1	EIA, WB
Alpha-fetoprotein (AFP) receptor	4AF39	5E1	IgG2a	EIA, WB, IHC
Human chorionic gonadotropin (HCG)	2H8	77F12	IgG2b	EIA, α -subunit, N/cr with β -subunit, C/r with LH, TSH, FSH
		F1	IgG1	α -subunit, N/cr with β -subunit, C/r with LH, TSH, FSH
Insulin-like growth factor binding protein-1 (IGFBP-1) (pp12)	4I52	A8	IgG1	EIA, WB
		G2	IgG2a	EIA, WB
Insulin-like growth factor binding protein-1 (IGFBP-1)	4IG8	G5F8	IgG2a	EIA, WB
		C7B9	IgG1	EIA, WB
Mullerian inhibiting substance receptor (MISR), human	4MI5	MIG7	IgG1	Indirect EIA, WB
Pregnancy-associated plasma protein A (PAPP-A), human	4P41	10E1	IgG2b	EIA, WB, PAPP-A subunit
		10E2	IgG2b	EIA, PAPP-A subunit
		5H9	IgG2b	EIA, proMBP subunit
		4G11	IgG2a	EIA, WB, PAPP-A subunit
		3C8	IgG2a	EIA, WB, PAPP-A subunit
		10H9	IgG2a	EIA, PAPP-A subunit
		11E4	IgG2b	WB, proMBP subunit
		7A6	IgG2a	EIA, PAPP-A subunit
		PAPP52	IgG1	EIA, PAPP-A subunit
	4P41cc	10E1cc	IgG2b	<i>In vitro</i> , EIA, WB, PAPP-A subunit
	10E2cc	IgG2b	<i>In vitro</i> , EIA, PAPP-A subunit	

ANTIGENS

Product name	Cat. #	Purity	Source
Alpha-fetoprotein (AFP)	8F8	>95%	Human cord serum
PAPP-A, heterotetrameric form (htPAPP-A)	8P64	>85%	Pooled retroplacental blood

Hormones

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
17 β -estradiol	2E2	ESTR-1	IgG1	EIA
Calcitonin	4C10	13B9	IgG2a	EIA, a.a.r. 60-69 of PCT
		24B2	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		13F2	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		13G11	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		14A2	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		16B5	IgG2b	EIA, WB, a.a.r. 72-81 of PCT
	4C10cc	14A2cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 72-81 of PCT
		16B5cc	IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 72-81 of PCT
Cortisol	2C2	CORT-1	IgG1	EIA, C/r data available
		CORT-2	IgG3	EIA, C/r data available
	2C2cc	XM210cc	IgG2a	<i>In vitro</i> , EIA, C/r data available
Dopamine	4D5	2B11	IgG1	IHC
Erythropoietin	4ER1	Epo1	IgG1	EIA, WB
		Epo2	IgG1	EIA
		B2A5	IgG1	EIA
		C3B6	IgG1	EIA
		D5C8	IgG1	WB
		F5E8	IgG2a	EPO purification
		Follicle stimulating hormone (FSH), beta chain	2FSH2	F2
Growth hormone, human (hGH)	2G2	GhG2	IgG1	EIA
		GhB9	IgG1	EIA
Human chorionic gonadotropin (HCG)	2H8	77F12	IgG2b	EIA, α -subunit, N/cr with β -subunit, C/r with LH, TSH, FSH
		F1	IgG1	α -subunit, N/cr with β -subunit, C/r with LH, TSH, FSH
		27E8	IgG1	EIA, β -subunit, N/cr with LH, FSH, TSH
		28A4	IgG2a	EIA, β -subunit, N/cr with LH, FSH, TSH
Lactoferrin	4L2	2B8	IgG1	EIA, WB
		1A1	IgG1	EIA, WB
		1C6	IgG1	EIA, WB
Luteinizing hormone (LH), beta chain	2LH2	L1	IgG1	EIA, WB
Progesterone	2P2	HPRO-1	IgG3	EIA, C/r data available
		HPRO-2	IgG2b	EIA, C/r data available
		HPRO-3	IgG2b	EIA, C/r data available
		XM207	IgG2b	EIA, C/r data available
Prolactin	2PL7	1B2	IgG1	EIA
		4G1	IgG1	EIA
		4E5	IgG	EIA
		5A8	IgG1	EIA
		8C3	IgG1	EIA
		Testosterone, human	2T2	XM209
Thyroid stimulating hormone (TSH)	2TS11	TSB1	IgG1	EIA, β -subunit, N/cr with human LH, FSH, HCG
		TSB4	IgG1	EIA, β -subunit, C/r with HCG, N/cr with human LH, FSH
		1CT1	IgG1	EIA, WB in non-reducing conditions, beta-subunit, N/cr with human LH, FSH, HCG
		7CT8	IgG1	EIA, beta-subunit, N/cr with human LH, FSH, HCG
	2TS11cc	7G12cc	IgG1	<i>In vitro</i> , EIA, whole molecule, N/cr with human LH, FSH, HCG
		11E4cc	IgG1	<i>In vitro</i> , EIA, β -subunit, N/cr with human LH, FSH, HCG
		10C7cc	IgG1	<i>In vitro</i> , EIA, whole molecule, N/cr with human LH, FSH, HCG
Thyroxine, human (T4)	2T6	1H1	IgG1	EIA, RIA
		XM212	IgG2a	EIA
Triiodothyronine (T3)	2T7	3A6	IgG1	EIA, RIA

New!



Tumor Markers

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Alpha-fetoprotein (AFP)	4F16	5H7	IgG1	EIA, WB
		4A3	IgG1	EIA, WB
Angiostatin, human, recombinant	4AS8	C5	IgG1	EIA, WB
		E11	IgG1	EIA, WB
CA-125	4C29	X306	IgG1	EIA, WB, A1 epitope group
		X75	IgG1	EIA, WB, B1 epitope group
		X325	IgG1	EIA, WB, IHC, B1 epitope group
		X52	IgG1	EIA, B2 Epitope group
CA19-9	4CA19	X91	IgM	EIA, IHC
CA72-4	4CA72	7C1	IgG1	EIA, WB
		1C2	IgG1	EIA, WB
		2C3	IgG1	EIA, WB
Carcinoembryonic antigen (CEA)	4CA30	3C1	IgG1	EIA, WB, epitope group IVa or II
		3C6	IgG1	EIA, WB, IHC, epitope group I
	4CA30cc	3C8cc	IgG1	<i>In vitro</i> , WB, epitope group V
CYFRA21-1	4CY1	XC42	IgG1	EIA, WB
		1X3	IgG1	EIA, WB
Erythroblastic leukemia viral oncogene homolog 2 (ErbB-2, HER2/neu)	4HER4	ERB-D6	IgG2a	EIA
		ERB-D8	IgG2a	EIA
		ERB-B2	IgM	EIA
		ERB-F9	IgG2a	EIA
Human chorionic gonadotropin (HCG)	2H8	27E8	IgG1	EIA, β -subunit, N/cr with LH, FSH, TSH
		28A4	IgG2a	EIA, β -subunit, N/cr with LH, FSH, TSH
Human epididymis protein 4 (HE4)	4HE6	2B13	IgG1	EIA
		9D42	IgG1	EIA
		3C24	IgG1	EIA
Human papillomavirus, type 11, oncoprotein E7	3HP11	711-13	IgG1	EIA, WB, C/r with types 16, 18
Human papillomavirus, type 16, oncoprotein E7	3HP16	716-281	IgG2b	EIA, WB, C/r with type 18
		716-325	IgG2a	EIA, WB
		716-F10	IgG1	EIA, WB, C/r with type 18
		716-332	IgG1	EIA, WB, C/r with type 18
		716-D1	IgG2a	EIA, WB, C/r with type 18
Human papillomavirus, type 18, oncoprotein E7	3HP18	718-15	IgG1	EIA, WB, C/r with type 16
		718-67	IgG2a	EIA, WB, C/r with type 16
		718-238	IgG2b	EIA, WB, C/r with type 16



Tumor Markers

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Mucin-1 glycoprotein (MUC1)	4M40	CM1	IgG1	IHC, IF, peptide tandem repeat in MUC1 core
		M9E7	IgG	EIA, Cluster 1-4 (ISOBM TD-4)
		M4H2	IgG	EIA, Cluster 1-4 (ISOBM TD-4)
		M8C9	IgG	EIA, Cluster 1-4 (ISOBM TD-4)
		M2F1	IgG	EIA, IHC, Cluster 6-7 (ISOBM TD-4)
		M2C5	IgG	EIA, IHC, Cluster 6-7 (ISOBM TD-4)
Neuron-specific enolase (NSE)	4N6	5G10	IgG2b	EIA, WB, IHC
		5E2	IgG2a	EIA, WB, IHC
		5A4	IgG2a	EIA, WB, IHC
		1C1	IgG2a	EIA
		H11	IgG2a	EIA
Prostate-specific antigen (PSA)	4P33	8A6	IgG2a	EIA, WB, free PSA, epitope 1
		PS1	IgG1	EIA, free PSA, epitope 1
		2H9	IgG2a	EIA, WB, equimolar total PSA, epitope 3, C/r with HK2
		PS2	IgG1	EIA, equimolar total PSA, epitope 3, C/r with HK2
		1H12	IgG2a	EIA, total PSA, epitope 4
		5G6	IgG1	EIA, WB, total PSA, epitope 4
Thyroglobulin	2TG12cc	5E6cc	IgG2b	<i>In vitro</i> , EIA
		5F9cc	IgG2a	<i>In vitro</i> , EIA, IHC

ANTIGENS

Product name	Cat. #	Purity	Source
Alpha-fetoprotein (AFP)	8F8	>95%	Human cord serum
CA-125	8C29	N/A	Human adenocarcinoma
CA15-3	8CA15	N/A	Human milk, standard grade
CA19-9	8CA19	N/A	Human metastatic liver carcinoma
CA72-4	8CA72	N/A	Human metastatic liver carcinoma
Carcinoembryonic antigen (CEA)	8CEA88	N/A	Single patient source colon carcinoma liver metastatic tissue
Human papillomavirus L1 protein (HPV L1), type 16, recombinant	8HPV16	>90%	Recombinant
Human papillomavirus L1 protein (HPV L1), type 18, recombinant	8HPV18	>90%	Recombinant
Neuron-specific enolase (NSE)	8NS3	>95%	Human brain
Prostate-specific antigen (PSA)	8P78	>98%	Human seminal fluid
Thyroglobulin	8TG52	>90%	Human thyroid gland



Neuroscience

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Beta-amyloid, human	4BA3	BAM7cc	IgG1	<i>In vitro</i> , EIA
		BAM113cc	IgG1	<i>In vitro</i> , EIA
		BAM120cc	IgG1	<i>In vitro</i> , EIA
Cu/Zn superoxide dismutase (Cu-Zn-SOD)	4CZ1	SOD1	IgG1	EIA, WB
Dopamine	4D5	2B11	IgG1	IHC
Glial fibrillary acidic protein (GFAP)	4G25	GF5	IgG2b	EIA, WB, IF, IHC
Neuron-specific enolase (NSE)	4N6	5G10	IgG2b	EIA, WB, IHC
		5E2	IgG2a	EIA, WB, IHC
		5A4	IgG2a	EIA, WB, IHC
		1C1	IgG2a	EIA
		H11	IgG2a	EIA
		2F1	IgG2a	EIA
S100 proteins, human	4S37	8B10	IgG1	EIA, WB, S100A1B and S100BB
		6G1	IgG1	EIA, WB, S100A1B and S100BB
		3B10	IgG2a	EIA, WB, S100BB
		4B3	IgG2a	WB, S100A1B and S100BB

New!
New!
New!

ANTIGENS

Product name	Cat. #	Purity	Source
Calmodulin, bovine	8C10b	>95%	Bovine brain
Calmodulin, human	8C10h	>95%	Human brain
Glial fibrillary acidic protein (GFAP)	8GF23	>90%	Human brain
Myelin basic protein (MBP)	8M79	>90%	Human brain
Neuron-specific enolase (NSE)	8NS3	>95%	Human brain
Non-neuronal enolase (NNE)	8NS4	>60%	Human brain
S100BB homodimer and S100A1B heterodimer, human	8S9h	>95%	Human brain
S100BB homodimer and S100A1B heterodimer, bovine	8S9b	>95%	Bovine brain
S100BB homodimer, human	8S9-2h	>95%	Human brain
S100BB homodimer, bovine	8S9-2b	>95%	Bovine brain

Gangliosides

GANGLIOSIDES AND GLOBOSIDE

Product name	Cat. #	Purity	Source
Asialoganglioside GM1, bovine	8G16-1b	>98%	Bovine brain MW 1263
Asialoganglioside GM1, human	8G16-1h	>98%	Human brain MW 1263
Asialoganglioside GM2, bovine	8G16-15b	>98%	Bovine brain MW 1103
Asialoganglioside GM2, human	8G16-15h	>98%	Human brain MW 1103
Disialoganglioside GD1a, bovine	8G16-6b	>98%	Bovine brain MW 1827
Disialoganglioside GD1a, human	8G16-6h	>98%	Human brain MW 1811
Disialoganglioside GD1a-NAcGal, bovine	8G16-17b	>98%	Bovine brain MW 2030
Disialoganglioside GD1a-NAcGal, human	8G16-17h	>98%	Human brain MW 2014
Disialoganglioside GD1b, bovine	8G16-7b	>98%	Bovine brain MW 1827
Disialoganglioside GD1b, human	8G16-7h	>98%	Human brain MW 1811
Disialoganglioside GD2, bovine	8G16-8b	>98%	Bovine brain MW 1665
Disialoganglioside GD2, human	8G16-8h	>98%	Human brain MW 1649
Disialoganglioside GD3, bovine	8G16-9b	>98%	Bovine brain MW 1461
Disialoganglioside GD3, human	8G16-9h	>98%	Human brain MW 1438
Monosialoganglioside GM1, bovine	8G16-2b	>98%	Bovine brain MW 1545
Monosialoganglioside GM1, human	8G16-2h	>98%	Human brain MW 1537
Monosialoganglioside GM2, bovine	8G16-3b	>98%	Bovine brain MW 1383
Monosialoganglioside GM2, human	8G16-3h	>98%	Human brain MW 1375
Monosialoganglioside GM3, bovine	8G16-4b	>98%	Bovine brain MW 1179
Monosialoganglioside GM3, human	8G16-4h	>98%	Human brain MW 1171
Monosialoganglioside GM4, bovine	8G16-5b	>98%	Bovine brain MW 1017
Monosialoganglioside GM4, human	8G16-5h	>98%	Human brain MW 1009
Tetrasialoganglioside GQ1b, bovine	8G16-12b	>98%	Bovine brain MW 2391
Tetrasialoganglioside GQ1b, human	8G16-12h	>98%	Human brain MW 2359
Trisialoganglioside GT1a, bovine	8G16-11b	>98%	Bovine brain MW 2109
Trisialoganglioside GT1a, human	8G16-11h	>98%	Human brain MW 2085
Trisialoganglioside GT1a alpha, bovine	8G16-21b	>98%	Bovine brain MW 2109
Trisialoganglioside GT1a alpha, human	8G16-21h	>98%	Human brain MW 2085
Trisialoganglioside GT1b, bovine	8G16-10b	>98%	Bovine brain MW 2109
Trisialoganglioside GT1b, human	8G16-10h	>98%	Human brain MW 2085
Ganglioside GM1 sphinganine, bovine	8G16-19b	>98%	Bovine brain MW 1548
Globoside, human	8G16-20h	>98%	Human erythrocytes MW 1260



Immunology and Serology

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
IgA	1A1	A909	IgG1	EIA, pan IgA
	1A1cc	3B7cc	IgG1	<i>In vitro</i> , EIA, PHA, Fc-region
		1H9cc	IgG2b	<i>In vitro</i> , EIA, Fc-region
IgE	1E4	E411	IgG2a	EIA, IgE Fc-region
		XTE4	IgG1	EIA, WB, ϵ -chain
		4H10	IgG	EIA
	1E4cc	4F4cc	IgG1	<i>In vitro</i> , EIA, IgE purification by A/C, ϵ -chain (C ϵ 3 domain)
		5D4cc	IgG2a	<i>In vitro</i> , EIA, IgE purification by A/C, ϵ -chain (C ϵ 2 domain)
IgG	1G1	CH1	IgG1	Fc-region, N/cr with IgA, IgM, IgE
		2A11	IgG2b	Fab-region, N/cr with IgA, IgM, IgE
	1G1cc	5A9cc	IgG2a	<i>In vitro</i> , WB, ID, Fc-region, Pan γ (C γ 2 domain), N/cr with IgA, IgM
		3D3cc	IgG2a	<i>In vitro</i> , EIA, WB, ID, Fc-region, Pan γ (C γ 3 domain), N/cr with IgA, IgM
IgG1	1G2cc	2C11cc	IgG1	<i>In vitro</i> , EIA, IHC, ID, γ -1 Fc-region, N c/r with IgG2, IgG3, IgG4
IgG2	1G5	52G1	IgG2a	EIA, Fc-region specific, γ -2 epitope, N/cr with IgG1, IgG3, IgG4, IgA, IgM, IgE
IgG3	1G3cc	5G12cc	IgG1	<i>In vitro</i> , EIA, γ -3 hinge region, N/cr with IgG1, IgG2, IgG4, IgA, IgM
IgG4	1G4cc	5C7cc	IgG1	<i>In vitro</i> , EIA, WB, γ -4 Fc-region, N/cr with IgG1, IgG2, IgG3, IgA, IgM
IgM	1M3	2A6	IgG1	WB, μ -chain, Fc-region
		1F4	IgG1	ID, WB
		CH2	IgG1	Fc-region
		MA2	IgG2b	Fab-region
		M11	IgG1	EIA
	1M3cc	2B9cc	IgG2b	<i>In vitro</i> , WB, EIA, FC, μ -chain, Fc-region
Kappa (free) light chains	1K8	4C11	IgG1	EIA, WB, κ -chain purification by A/C, free κ -chain only
Kappa light chains	1K5cc	4G7cc	IgG2a	<i>In vitro</i> , EIA, WB, κ -chain purification by A/C, free and bound κ -chain
Lambda (free) light chains	1L7cc	3D12cc	IgG2a	<i>In vitro</i> , EIA, WB, λ -chain purification by A/C, free λ -chain only
Light chains of human immunoglobulins	1K9	7A9	IgG2a	WB, IgA-, IgG-, IgM-specific
Myeloperoxidase (MPO)	4M43	4A4	IgG2b	EIA, WB
		18B7	IgG1	EIA, WB
		4B3	IgG1	EIA
		16E3	IgG1	EIA
		17G2	IgG2b	EIA
		19G8	IgG1	EIA
		Ovine IgG	5O2	9E2
Ovine IgM	5O1	G9	IgG1	ID, C/r with all artiodactylis
Thyroid peroxidase (TPO)	4TP15	6H7	IgG1	EIA
		TPO28	IgG1	EIA WB
		TPO34	IgG1	EIA, WB
		TPO35	IgG1	EIA

ANTIGENS

Product name	Cat. #	Purity	Source
Myeloperoxidase (MPO)	8M80	>90%	Human leucocyte mass
Thyroid peroxidase (TPO)	8T58	>90%	Human thyroid gland
Thyroid peroxidase (TPO), recombinant	8RTP0	>95%	Recombinant



Inflammation

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Calcitonin	4C10	13B9	IgG2a	EIA, a.a.r. 60-69 of PCT
		24B2	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		13F2	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		13G11	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		14A2	IgG1	EIA, WB, a.a.r. 72-81 of PCT
		16B5	IgG2b	EIA, WB, a.a.r. 72-81 of PCT
	4C10cc	14A2cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 72-81 of PCT
		16B5cc	IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 72-81 of PCT
C-reactive protein (CRP)	4C28	C1	IgG2b	EIA, WB, high sensitivity
		C2	IgG1	EIA, high sensitivity
		C3	IgG1	EIA, IHC, Ca ²⁺ dependent, high sensitivity
		C4	IgG1	EIA, Ca ²⁺ dependent, high sensitivity
		C5	IgG1	EIA, high sensitivity
		C6	IgG2a	EIA, high sensitivity
		C7	IgG1	EIA, IHC, high sensitivity
		CRP11	IgG1	EIA, WB
		CRP30	IgG1	EIA, low affinity
		CRP36	IgG2a	EIA, WB, IHC
		CRP103	IgG2b	EIA, low affinity
		CRP135	IgG1	EIA, high sensitivity
	CRP169	IgG2a	EIA, WB	
	4C28cc	C2cc	IgG1	<i>In vitro</i> , EIA, high sensitivity
		C6cc	IgG2a	<i>In vitro</i> , EIA, high sensitivity
		CRP30cc	IgG1	<i>In vitro</i> , EIA, low affinity
Epidermal growth factor (EGF), human	4EL36	EGF-2	IgG1	EIA, WB
Interferon α	4IF13	C10F5	IgG1	EIA, α -A, F, D, I1 and P-subtypes
		AE3	IgG2a	EIA, WB
		AB5	IgG1	EIA, WB
Interferon β , recombinant	4IB12	BB4	IgG2a	EIA, WB
		BD9	IgG2a	EIA, WB, neutralizing activity
Interferon γ	4I22	GC8	IgG1	EIA, WB
		GD4	IgG1	EIA, WB
		GF1	IgG1	EIA, WB
		H3-1	IgG1	EIA, WB
Interleukin-1, β	4IL12	6E10	IgG2a	EIA, IHC
		11E5	IgG2b	EIA, IHC
Interleukin-6, recombinant	4IL6	B10	IgG2b	EIA
		G5	IgG1	EIA

New!

New!

Inflammation

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Procalcitonin (PCT)	4PC47	44D9	IgG2a	EIA, WB
		6F10	IgG1	EIA, WB, a.a.r. 21-40 of PCT
		27A3	IgG2a	EIA, WB, a.a.r. 21-40 of PCT
		38F11	IgG1	EIA, WB, a.a.r. 21-40 of PCT
		42	IgG2a	EIA, WB, a.a.r. 21-40 of PCT
		22A11	IgG1	EIA, WB, a.a.r. 96-105 of PCT
		14C12	IgG1	EIA, WB, a.a.r. 102-111 of PCT
		18B7	IgG1	EIA, WB, a.a.r. 102-111 of PCT
Serum amyloid A (SAA)	4SA11	SAA1	IgG1	EIA, WB
		SAA6	IgG1	EIA, WB
		SAA15	IgG1	EIA, WB
		VSA6	IgG1	EIA, WB
		VSA25	IgG1	EIA, WB
Serum amyloid A (SAA), animal	4VS4	SAA11	IgG2b	EIA, WB, reacts also with human SAA
		VSA31	IgG2a	EIA, WB, reacts also with human SAA
		VSA31cc	IgG2a	<i>In vitro</i> , EIA, WB, reacts also with human SAA
		VSA38	IgG2a	EIA, WB, reacts also with human SAA
		VSA38cc	IgG2a	<i>In vitro</i> , EIA, WB, reacts also with human SAA
Tumor necrosis factor (TNF), alpha	4T10	1D9	IgG1	IHC
		F6C5	IgG1	EIA, IHC
		2C8	IgG1	EIA, IHC

New!

New!

POLYCLONAL ANTIBODY

Product name	Cat. #	Host Animal	Remarks
Procalcitonin	PPC3	goat	EIA

ANTIGENS

Product name	Cat. #	Purity	Source
C-reactive protein (CRP)	8C72	>95%	Human pleural/ascitic fluid or plasma
Procalcitonin, tag-free, recombinant	8PC5	>95%	Recombinant
Serum amyloid A1 (SAA1), human, recombinant	8SA1	>95%	Recombinant
Serum amyloid A2 (SAA2), human, recombinant	8SA2	>95%	Recombinant

DEPLETED SERUM

Product name	Cat. #	Source
C-reactive protein free serum	8CFS	Pooled normal human serum

Influenza A

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAB	Subclass	Remarks
Influenza A nucleoprotein	3IN5	F8	IgG2a	EIA, IHC
		InA108	IgG1	EIA, WB
		InA180	IgG3	EIA
		InA224	IgG1	EIA
		InA245	IgG2b	EIA, WB
Influenza A haemagglutinin	3IH4	C102	IgG1	EIA, IF, HIT, IHC, haemagglutinin H1
Influenza A haemagglutinin H1	3AH1	InA97	IgG1	EIA, WB
		InA134	IgG1	EIA, WB
		InA139	IgG1	EIA, WB
Influenza A haemagglutinin H3	3HG3	InA227	IgG1	EIA, WB
		InA246	IgG2a	EIA, WB
Influenza A haemagglutinin H5	3H5N	15A6	IgG2a	EIA, HIT, Dot blot
		18D5	IgG2a	EIA, HIT, Dot blot
		19C11	IgG2a	EIA, HIT, Dot blot
		8D2	IgG2a	EIA, HIT, Dot blot
		6C8	IgG1	EIA, HIT
		1C7	IgG2a	EIA, HIT
		1B4	IgG2a	EIA
Influenza A haemagglutinin H7	3HI7	InA331	IgG1	EIA
		InA334	IgG1	EIA
		InA414	IgG2b	EIA

ANTIGENS

Product name	Cat. #	Purity	Source
Influenza A (H1N1) virus	8IN73	>90%	A/Taiwan/1/86
Influenza A (H1N1) virus-2	8IN73-2	>90%	A/Beijing/262/95
Influenza A (H1N1) virus-3	8IN73-3	>90%	A/New Caledonia/20/99
Influenza A (H1N1) virus-4	8IN73-4	>90%	A/Solomon Islands/03/06
Influenza A (H3N2) virus	8IN74	>90%	A/Shangdong/9/93
Influenza A (H3N2) virus-1	8IN74-1	>90%	A/Panama/2007/99
Influenza A (H3N2) virus-2	8IN74-2	>90%	A/Kiev/301/94
Influenza A (H3N2) virus-3	8IN74-3	>90%	A/Wisconsin/67/05
Influenza A (H3N2) virus-4	8IN74-4	>90%	A/Brisbane/10/07

Influenza B

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Influenza B haemagglutinin	3BH9	InB18	IgG2a	EIA, WB, haemagglutinin 2 (HA2)
		InB190	IgG2b	EIA, WB, haemagglutinin 2 (HA2)
Influenza B matrix protein M1	3BM17	InB4	IgG1	EIA, WB
Influenza B group antigen	3IF18	2/3	IgG2a	EIA, WB, IF, nucleoprotein
		InB12	IgG2b	EIA, WB, nucleoprotein
		InB27	IgG1	EIA, WB, nucleoprotein
		InB36	IgG1	EIA, WB, nucleoprotein
		InB64	IgG1	EIA, WB, nucleoprotein
		InB114	IgG1	EIA, WB, nucleoprotein
		InB204	IgG1	EIA, WB, nucleoprotein
		InB210	IgG1	EIA, WB, nucleoprotein
	InB213	IgG1	EIA, WB, nucleoprotein	
	RIF17	R2/3	IgG2a	<i>In vitro</i> , EIA, WB, nucleoprotein

ANTIGENS

Product name	Cat. #	Purity	Source
Influenza B virus-2	8IN75-2	>90%	B/Tokio/53/99
Influenza B virus-3	8IN75-3	>90%	B/Victoria/504/00
Influenza B virus-4	8IN75-4	>90%	B/Malaysia/2506/04
Influenza B virus-5	8IN75-5	>90%	B/Florida/07/04
Influenza B virus-6	8IN75-6	>90%	B/Florida/04/06

Other acute respiratory diseases (ARD)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks	
Adenovirus hexon	3AV13	8C4	IgG2a	EIA, ID, IHC	
		7C11	IgG2a + IgM	EIA, ID, IHC	
		1E11	IgG2a + IgM	EIA, ID, IHC	
		7F1	IgG2a	EIA, IHC	
Newcastle disease virus (NDV)	3ND5	9F7	IgG1	EIA, WB, HIT, haemagglutinin-neuraminidase	
		11F12	IgG2a	EIA, WB, HIT, haemagglutinin-neuraminidase	
		13H3	IgG2a	EIA, WB, HIT, haemagglutinin-neuraminidase	
		1C10	IgG2a	EIA, HIT, haemagglutinin-neuraminidase	
		2H4	IgM	EIA, HIT, haemagglutinin-neuraminidase	
		8H2	IgG2a	EIA, haemagglutinin-neuraminidase	
Respiratory syncytial virus (RSV)	3ReS21	8B10	IgG2a	EIA, nucleoprotein	
		3ReS21cc	9C5cc	IgG2b	<i>In vitro</i> , EIA, WB, F protein

ANTIGENS

Product name	Cat. #	Purity	Source
Adenovirus, type 6	8AV13	>90%	Tonsil 99
Parainfluenza virus, type 1	8P76	>90%	Sendai
Parainfluenza virus, type 2	8P76-2	>90%	II ALTB cc 2056
Parainfluenza virus, type 3	8P76-3	>90%	III v 2932
Respiratory syncytial virus (RSV)	8RSV79	>90%	Strain Long

Mycobacterium tuberculosis

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
<i>Mycobacterium tuberculosis</i> CFP10	3CFP1	KFB16	IgG1	EIA
		KFB42	IgG2b	EIA
<i>Mycobacterium tuberculosis</i> ESAT6	3ES6	RSB14	IgG1	EIA
		RSB34	IgG2a	EIA
<i>Mycobacterium tuberculosis</i> recombinant 16 kDa Ag	3MT16	HTM63	IgG2a	EIA, WB
<i>Mycobacterium tuberculosis</i> recombinant 38 kDa Ag	3MT38	HTM81	IgG1	EIA, WB
		HTM82	IgG2b	EIA, WB
<i>Mycobacterium tuberculosis</i> , heat shock protein 70 (HSP70)	3HSP70	TS31	IgG2a	EIA, WB

Malaria

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
<i>Plasmodium falciparum</i> merozoite surface protein 1 (MSP1)	3PLF1	PEM-2	IgG1	EIA, WB
<i>Plasmodium vivax</i> merozoite surface protein 1 (MSP1)	3PLV5	PVM-1	IgG1	EIA, WB
		PVM-2	IgG2b	EIA, WB
<i>Plasmodium vivax</i> circumsporozoite protein (CSP)	3PLV2	PVC-2	IgG1	EIA

TORCH

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Cytomegalovirus	3CV14	B2	IgG2a	EIA, WB, p65
<i>Herpes simplex</i> virus, type 2	3HS2	HSVA33	IgG1	EIA, WB
<i>Rubella</i> virus structural glycoprotein	3R23	Ru6	IgG2a	EIA, WB, structural E1 glycoprotein
		1C11	IgG1	EIA, WB, structural core protein
<i>Toxoplasma gondii</i>	3Tx19	TP3	IgG2a	EIA, WB, IF, P30 antigen

ANTIGENS

Product name	Cat. #	Purity	Source
<i>Rubella</i> virus E1, mosaic, recombinant	8RVE1	>80%	Recombinant
<i>Rubella</i> virus E2, recombinant	8RVE2	>80%	Recombinant

Foodborne pathogens

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Adenovirus hexon	3AV13	8C4	IgG2a	EIA, ID, IHC
		7C11	IgG2a + IgM	EIA, ID, IHC
		1E11	IgG2a + IgM	EIA, ID, IHC
		7F1	IgG2a	EIA, IHC
Astrovirus	3AS6	ASV	IgG3	EIA, WB
<i>Caliciviridae</i> (norovirus)	3CNV1	1F1	IgG2a	EIA
		2A5	IgG2b	EIA, WB, HIT
		1B1	IgG2b	EIA, WB, HIT
		7C5	IgG2b	EIA, WB, HIT
		3G12	IgG2a	EIA, WB, HIT
<i>Campylobacter jejuni</i>	3CJ2	H2	IgG1	EIA, WB
<i>Helicobacter pylori</i> CagA-protein	3HE70cc	HP-1811cc	IgG	<i>In vitro</i> , EIA, WB, IP, a.a.r. 562-795
<i>Listeria monocytogenes</i>	3L1	LZF7	IgG2a	EIA, WB
		LZH1	IgG1	EIA, WB
Rotavirus A	3R10	3C10	IgG2a	EIA, IHC, WB, P42 antigen
		2G6	IgG2a	EIA, Vp7, human and bovine rotavirus
Salmonella O-antigens	3SO22	10B10G	IgG1	A-group, C/r data available
		10D9H	IgG1	A, B and D-group, C/r data available
		5D12A	IgG1	Pan Salmonella, C/r data available
<i>Salmonella typhimurium</i>	3S9	1E6cc	IgG1	<i>In vitro</i> , LPS of <i>S. typhimurium</i>

ANTIGEN

Product name	Cat. #	Purity	Source
Adenovirus, type 6	8AV13	>90%	Tonsil 99



Sexually transmitted diseases (STD)

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
<i>Candida albicans</i>	3CA4	CDA	IgG1	EIA, WB
<i>Herpes simplex virus</i> , type 2	3HS2	HSVA33	IgG1	EIA, WB
Human papillomavirus, type 11, oncoprotein E7	3HP11	711-13	IgG1	EIA, WB, C/r with types 16, 18
Human papillomavirus, type 16, oncoprotein E7	3HP16	716-281	IgG2b	EIA, WB, C/r with type 18
		716-325	IgG2a	EIA, WB
		716-F10	IgG1	EIA, WB, C/r with type 18
		716-332	IgG1	EIA, WB, C/r with type 18
		716-D1	IgG2a	EIA, WB, C/r with type 18
Human papillomavirus, type 18, oncoprotein E7	3HP18	718-15	IgG1	EIA, WB, C/r with type 16
		718-67	IgG2a	EIA, WB, C/r with type 16
		718-238	IgG2b	EIA, WB, C/r with type 16
<i>Treponema pallidum</i>	3T11	Tr33	IgG1	EIA, WB
		E6	IgG2b	Indirect EIA with recombinant protein, TpN17 protein
		F10	IgG2b	Indirect EIA with recombinant protein, TpN17 protein

ANTIGENS

Product name	Cat. #	Purity	Source
Human papillomavirus L1 protein (HPVL1), type 16, recombinant	8HPV16	>90%	Recombinant
Human papillomavirus L1 protein (HPVL1), type 18, recombinant	8HPV18	>90%	Recombinant

Hepatitis

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Hepatitis B virus "e" antigen (HBeAg)	3HBe24	HBe3	IgG2b	EIA
		HBe5	IgG2b	EIA
		HBe7	IgG1	EIA
		HBe8	IgG2b	EIA
Hepatitis B virus core antigen (HBcAg)	3HB17	H3A4	IgG2a	EIA, WB
		H6F5	IgG2a	EIA, WB
Hepatitis B virus surface antigen (HBsAg)	3HB12	HB5	IgG1	EIA
		HB6	IgG1	EIA
		HB11	IgG1	EIA
		HB12	IgG1	EIA
		HB13	IgG1	EIA
		Hs33	IgG2a	EIA
		Hs41	IgG1	EIA

ANTIGENS

Product name	Cat. #	Purity	Source
HBsAg, ayw subtype, recombinant	8HS7ay	>98%	Recombinant
HBsAg, adw subtype, recombinant	8HS7-2ad	>98%	Recombinant
Hepatitis E virus (HEV), capsid protein (ORF2), recombinant	8HEV3	>95%	Recombinant
HBsAg, G145R escape mutant, recombinant	8HGR4	>95%	Recombinant



Veterinary

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Adenovirus hexon	3AV13	8C4	IgG2a	EIA, ID, IHC
		7C11	IgG2a + IgM	EIA, ID, IHC
		1E11	IgG2a + IgM	EIA, ID, IHC
		7F1	IgG2a	EIA, IHC
Astrovirus	3AS6	ASV	IgG3	EIA, WB
<i>Borrelia burgdorferi garinii</i>	3BB24	Bg14	IgG1	EIA, WB, IF
Bovine corona virus	3BCV1	5A4	IgG1	EIA, HIT
<i>Brucella abortus</i> (Brucellosis)	3BR11	BrF11	IgG1	EIA, WB
		BrG11	IgG2a	EIA, WB
<i>Burkholderia mallei</i>	3PM15	Sap1-43	IgG1	Indirect EIA with whole cells
		3D11	IgG1	EIA, WB
<i>Burkholderia pseudomallei</i>	3PMB1	Mel2-25	IgG1	Indirect EIA with whole cells
Canine C-reactive protein (cCRP)	4CC5	cCRP1	IgG1	EIA, WB
		cCRP1cc	IgG1	<i>In vitro</i> , EIA, WB
		cCRP3	IgG2b	EIA, WB
		cCRP11	IgG1	EIA, WB
		cCRP34	IgG1	EIA, WB
Canine distemper virus (CDV)	3CD10	8-1	IgG2a	EIA, PLA
		5-4	IgG2a	EIA, PLA
Canine parvovirus (CPV)	3PV16	5G7	IgG2a	EIA, WB, ID, HIT
		8H7	IgG2a	EIA, WB, ID, HIT
		2A10	IgG2a	EIA
		3G3	IgG2a	EIA
		3H6	IgG3	EIA
Foot-and-mouth disease virus (FMDV)	3FM2	2D2	IgG2a	EIA, ID, VN, serotype O
		3G8	IgG2a	EIA, ID, VN, serotype O
		1G2	IgG2a	EIA, non-structural protein 2a
		1H4	IgG2a	EIA, non-structural protein 2a
Infectious bronchitis virus (IBV)	3BN1	IB95	IgG2a	EIA, WB
Infectious bursal disease virus (IBDV)	3BD5	IBDV67	IgG1	EIA, WB, IHC, outer capsid structure protein VP2
		IBDV92	IgG1	EIA, WB, IHC, outer capsid structure protein VP2
		IBDV9	IgG2a	EIA, WB, IHC, inner capsid structure protein VP3
		IBDV105	IgG3	EIA, WB, IHC, inner capsid structure protein VP3
Influenza A haemagglutinin H5	3H5N	15A6	IgG2a	EIA, HIT, Dot blot
		18D5	IgG2a	EIA, HIT, Dot blot
		19C11	IgG2a	EIA, HIT, Dot blot
		8D2	IgG2a	EIA, HIT, Dot blot
		6C8	IgG1	EIA, HIT
		1C7	IgG2a	EIA, HIT
		1B4	IgG2a	EIA
Influenza A haemagglutinin H7	3HI7	InA331	IgG1	EIA
		InA334	IgG1	EIA
		InA414	IgG2b	EIA
Insulin/Proinsulin, rat-mouse	2IP10	D6C4	IgG1	EIA, IHC
		D3E7	IgG1	EIA, IHC
	2IP10cc	D6C4cc	IgG1	<i>In vitro</i> , EIA, IHC
		D3E7cc	IgG1	<i>In vitro</i> , EIA, IHC
Marek disease virus (MDV)	3MD8	14C8	IgG3	EIA
		1G6	IgG2a	EIA
		3H9	IgG2b	EIA

New!

New!

New!

New!

Veterinary

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Newcastle disease virus (NDV)	3ND5	9F7	IgG1	EIA, WB, HIT, haemagglutinin-neuraminidase
		11F12	IgG2a	EIA, WB, HIT, haemagglutinin-neuraminidase
		13H3	IgG2a	EIA, WB, HIT, haemagglutinin-neuraminidase
		1C10	IgG2a	EIA, HIT, haemagglutinin-neuraminidase
		2H4	IgM	EIA, HIT, haemagglutinin-neuraminidase
		8H2	IgG2a	EIA, haemagglutinin-neuraminidase
		6H12	IgG2a	IF, IHC, ribonucleoprotein
NT-proBNP, canine	4CNT5	CaNT89	IgG1	EIA, a.a.r. 19-28
		CaNT90	IgG1	EIA, a.a.r. 35-48
		CaNT19	IgG1	EIA, a.a.r. 42-50
		CaNT46	IgG1	EIA, a.a.r. 42-50
		CaNT49	IgG1	EIA, a.a.r. 66-72
		CaNT53	IgG1	EIA, a.a.r. 64-80
Proinsulin, rat	2PR8	CCI-17	IgG1	EIA
Rabies virus	3R7	1C5	IgG2a	EIA, IHC
		4G4	IgG2b	EIA, ribonucleoprotein
		5B12	IgG2a	EIA, WB, IHC, IF, ribonucleoprotein
		1E9	IgG2a	EIA, ID, ribonucleoprotein
		4F1	IgG2b	EIA, VN, glycoprotein
		7E3	IgG2a	EIA, VN, glycoprotein
		9A10	IgG1	EIA, VN, glycoprotein
		Rotavirus A	3R10	3C10
2G6	IgG2a			EIA, WB, IHC, Vp7, human and bovine rotavirus
Serum amyloid A (SAA), animal	4VS4	VSA2	IgG1	EIA, WB, canine, equine
		SAA11	IgG2b	EIA, WB, canine, equine, feline, human
		SAA19	IgG2a	EIA, WB, canine, equine, feline
		SAA19cc	IgG2a	<i>In vitro</i> , EIA, WB, canine, equine, feline
		SAA21	IgG2b	EIA, WB, canine, equine, feline
		SAA21cc	IgG2b	<i>In vitro</i> , EIA, WB, canine, equine, feline
		VSA31	IgG2a	EIA, WB, canine, equine, feline, human
		VSA31cc	IgG2a	<i>In vitro</i> , EIA, WB, canine, equine, feline, human
		VSA34	IgG2b	EIA, WB, canine, equine, feline
		VSA34cc	IgG2b	<i>In vitro</i> , EIA, WB, canine, equine, feline
		VSA38	IgG2a	EIA, WB, canine, equine, feline, human
		VSA38cc	IgG2a	<i>In vitro</i> , EIA, WB, canine, equine, feline, human
		VSA43	IgG2b	EIA, WB, canine, equine
Serum amyloid A (SAA), human	4SA11	SAA1	IgG1	EIA, WB, canine
		SAA6	IgG1	EIA, WB, canine
		SAA15	IgG1	EIA, WB, canine
		VSA6	IgG1	EIA, WB, canine, equine
		VSA25	IgG1	EIA, WB, canine, feline, equine
Thyroid stimulating hormone (TSH)	2TS11	1CT1	IgG1	EIA, WB in non-reducing conditions, beta-subunit
		7CT8	IgG1	EIA, beta-subunit
	2TS11cc	11E4cc	IgG1	<i>In vitro</i> , EIA, WB in non-reducing conditions, beta-subunit
Transmissible gastroenteritis virus (TGE) of pigs	3TG1	1E11	IgG1	EIA, HIT

New!

New!

New!

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Veterinary

OTHER MONOCLONAL ANTIBODIES CROSS-REACTING WITH ANIMAL PROTEINS

Product name	Cat. #	MAB	Subclass	Remarks
Cortisol	2C2	CORT-1	IgG1	EIA
		CORT-2	IgG3	EIA
	2C2cc	XM210cc	IgG2a	<i>In vitro</i> , EIA
Cystatin C	4CC1	Cyst11	IgG1	EIA, dog and cat serum
		Cyst13	IgG1	EIA, WB, horse serum
		Cyst16	IgG1	EIA, dog and cat serum
		Cyst20	IgG1	EIA, dog, cat and horse serum
		Cyst29	IgG2a	EIA, dog, cat and horse serum
GAPDH	5G4	6C5	IgG1	EIA, WB, IF, IHC, IP, porcine, canine, rabbit, cat, rat, mouse
		4G5	IgG1	EIA, WB, IF, IHC, IP, bovine, porcine, goat, cat, rat, mouse
	5G4cc	6C5cc	IgG1	<i>In vitro</i> , EIA, WB, IF, IHC, IP, porcine, canine, rabbit, cat, rat, mouse
Progesterone	2P2	HPRO-1	IgG3	EIA
		HPRO-2	IgG2b	EIA
		HPRO-3	IgG2b	EIA
		XM207	IgG2b	EIA
Retinol-binding protein 4 (RBP4)	4RB2	RB42	IgG1	EIA, WB
		RB45	IgG1	EIA, WB
		RB48	IgG1	EIA, WB
		RB55	IgG1	EIA, WB
Thyroxine, human (T4)	2T6	1H1	IgG1	EIA, RIA
		XM212	IgG2a	EIA
Triiodothyronine (T3)	2T7	3A6	IgG1	EIA, RIA
Troponin I cardiac	4T21	4C2	IgG2a	EIA, WB, a.a.r. 23-29, bovine, porcine, goat, canine, rabbit, rat, mouse
		M155	IgG1	EIA, WB, a.a.r. 26-35
		10F4	IgG2a	EIA, WB, a.a.r. 34-37, bovine, porcine, goat, canine, rabbit, cat, rat, mouse
		19C7	IgG2b	EIA, WB, a.a.r. 41-49, bovine, goat, rabbit, cat, rat
		247	IgG1	a.a.r. 65-74, only free cTnI, bovine, porcine, goat, canine, cat, rat, mouse
		C5	IgG2b	EIA, WB, a.a.r. 186-192, >50 % C/r with skeletal troponin I, bovine, porcine, goat, canine, rabbit, cat, rat, mouse
	4T21cc	4C2cc	IgG2a	<i>In vitro</i> , EIA, WB, a.a.r. 23-29
		M155cc	IgG1	<i>In vitro</i> , EIA, WB, a.a.r. 26-35
19C7cc		IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 41-49	
Troponin T cardiac	4T19	2F3	IgG2b	EIA, WB, a.a.r. 145-164, porcine, goat
		1A11	IgG2b	EIA, WB, a.a.r. 145-164, bovine, porcine, goat, mouse
		1F11	IgG2b	EIA, WB, a.a.r. 145-164, bovine, porcine, goat
	4T19cc	1F11cc	IgG2b	<i>In vitro</i> , EIA, WB, a.a.r. 145-164

Veterinary

ANTIGENS

Product name	Cat. #	Purity	Source
Calmodulin, bovine	8C10b	>95%	Bovine brain
Canine parvovirus (CPV) VP2, recombinant	8CP2	>90%	Recombinant
C-reactive protein (cCRP), canine, recombinant	8CC5	>95%	Recombinant
NT-proBNP, canine, recombinant	8CNT9	>95%	Recombinant
S100BB homodimer and S100A1B heterodimer, bovine	8S9b	>95%	Bovine brain
S100BB homodimer, bovine	8S9-2b	>95%	Bovine brain
Serum amyloid A (SAA), canine, recombinant	8CS4	>95%	Recombinant
Serum amyloid A (SAA), equine, recombinant	8ES6	>95%	Recombinant
Serum amyloid A (SAA), feline, recombinant	8FS5	>95%	Recombinant
Serum amyloid A (SAA), feline, recombinant, non-tagged	8FT7	>95%	Recombinant
Thyroglobulin, canine	8CT8	>90%	Canine thyroid gland
Thyroid stimulating hormone (TSH), canine, recombinant	8CTS5	>90%	Recombinant
Troponin I cardiac, bovine	8T53b	>98%	Bovine cardiac muscle
Troponin I cardiac, canine	8T53c	>98%	Canine cardiac muscle
Troponin I cardiac, mouse	8T53m	>98%	Mouse cardiac muscle
Troponin I cardiac, porcine	8T53p	>98%	Porcine cardiac muscle
Troponin I cardiac, rat	8T53r	>98%	Rat cardiac muscle
Troponin complex (I-T-C), canine	8T62c	N/A	Canine cardiac muscle
Troponin I skeletal muscle, bovine	8T25b	>95%	Bovine skeletal muscle
Troponin I skeletal muscle, canine	8T25c	>95%	Canine skeletal muscle
Troponin I skeletal muscle, mouse	8T25m	>95%	Mouse skeletal muscle
Troponin I skeletal muscle, porcine	8T25p	>95%	Porcine skeletal muscle
Troponin I skeletal muscle, rat	8T25r	>95%	Rat skeletal muscle
Troponin T cardiac, bovine	8T13b	>98%	Bovine cardiac muscle
Troponin T cardiac, canine	8T13c	>98%	Canine cardiac muscle
Troponin T cardiac, mouse	8T13m	>98%	Mouse cardiac muscle
Troponin T cardiac, porcine	8T13p	>98%	Porcine cardiac muscle
Troponin T cardiac, rat	8T13r	>98%	Rat cardiac muscle
Troponin T skeletal muscle, bovine	8T24b	>95%	Bovine skeletal muscle
Troponin T skeletal muscle, canine	8T24c	>95%	Canine skeletal muscle
Troponin T skeletal muscle, mouse	8T24m	>95%	Mouse skeletal muscle
Troponin T skeletal muscle, porcine	8T24p	>95%	Porcine skeletal muscle
Troponin T skeletal muscle, rat	8T24r	>95%	Rat skeletal muscle



Microbial and Plant Toxins

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Aflatoxin from <i>Aspergillus flavus</i>	3Af27	ATB	IgG1	EIA, C/r data available
Cholera toxin	2C4	3D11	IgG1	EIA, B-subunit of cholera toxin
		B8	IgG1	EIA, B-subunit of cholera toxin
		E6	IgG2a	EIA, B-subunit of cholera toxin
		E10	IgG2a	EIA, WB, B-subunit of cholera toxin
		G9	IgG1	EIA, B-subunit of cholera toxin
<i>Clostridium botulinum</i> toxin A	3Cb19	2A33	IgM	EIA, WB, a.a.r. 869-887, <i>C. botulinum</i> toxin A heavy chain
		24A29	IgM	EIA, WB, a.a.r. 1177-1195, <i>C. botulinum</i> toxin A heavy chain
<i>Clostridium botulinum</i> A toxoid	3Cb20	KBA211	IgG1	EIA, C/r data available
		KBA468	IgG2a	EIA, C/r data available
<i>Clostridium botulinum</i> B toxoid	3Cb21	KBB18	IgG1	EIA, C/r data available
		KBB27	IgG1	EIA, C/r data available
Diphtheria toxin	2DT13	1H2	IgG1	EIA, N/cr with free A- and B-subunits
		3B6	IgG1	EIA, N/cr with free A- and B-subunits
Diphtheria toxin, A-subunit	2DT14	8A4	IgG2a	EIA, N/cr with whole toxin and free B-subunit
		7F2	IgG1	EIA, N/cr with free B-subunit
<i>E. coli</i> heat-labile enterotoxin B-chain	2LTB2	BB2	IgG2b	EIA, WB
		BG12	IgG1	EIA, WB
Microcystin-LR	2MC2	C64A1	IgG1	Indirect EIA
		C64C12	IgG1	Indirect EIA
Ricin, RCA ₆₀ from <i>Ricinus communis</i>	2R1	CP37	IgG2a	A-chain, EIA, WB
		CP75	IgG1	A-chain, EIA, WB
		RA999	IgG1	A-chain, EIA, WB, C/r with RCA ₁₂₀
		RB999	IgG1	B-chain, EIA, WB
<i>Staphylococcus aureus</i> enterotoxin A	2S7	C4	IgG1	EIA, WB
		E11	IgG2a	EIA, WB
		H5	IgG1	EIA, WB
		H10	IgG2b	EIA, WB
<i>Staphylococcus aureus</i> enterotoxin B	2S4	S222	IgG1	EIA, N/cr with A, C, D and E enterotoxin
		S643	IgG1	EIA, N/cr with A, C, D and E enterotoxin
<i>Staphylococcus aureus</i> enterotoxin G	2S6	SEG-59	IgG1	EIA, WB
		SEG-16	IgG2a	EIA, WB
<i>Staphylococcus aureus</i> enterotoxin I	2S5	SEI-68	IgG1	EIA, WB
Tetanus toxin	2TE8	TetE3	IgG1	EIA, WB
		TetG2	IgG1	EIA, WB
		TetH6	IgG1	EIA, WB

Biodefense

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
<i>Bacillus anthracis</i> protective antigen	3BA16	C3	IgG1	EIA, WB
		BAP0101	IgG2b	EIA, WB
		BAP0102	IgG2b	EIA, WB
		BAP0105	IgG1	EIA, WB
		BAP0106	IgG1	EIA, WB
<i>Bacillus anthracis</i> lethal factor	3BA17	BAL0105	IgG1	EIA, WB
		BAL0106	IgG1	EIA, WB
		LFA58	IgG1	EIA, WB
		LFA27	IgG2a	EIA, WB
<i>Bacillus anthracis</i> spore antigen	3BA19	SA26	IgG2a	EIA, WB
		SA27	IgG2a	EIA, WB
Ebola virus, Zaire strain	3E1	FE18	IgG2a	EIA, WB
		FE25	IgG2a	EIA, WB
		FE37	IgG2a	EIA, WB
<i>Francisella tularensis</i> LPS	3FT6	FB11	IgG2a	EIA, IF
		T14	IgG3	EIA, IF
Marburg virus	3M1	FM213	IgG1	EIA, WB
		FM11	IgG1	EIA, WB
		FM32	IgG1	EIA, WB
		FM44	IgG1	EIA, WB
Vaccinia virus	3V1	TV43	IgG2a	EIA, WB
		TV46	IgG2a	EIA, WB
<i>Yersinia pestis</i> F1 antigen	3YP8	YPF19	IgG1	EIA, WB, IHC
<i>Yersinia pestis</i> V antigen	3YPV8	Va13	IgG1	EIA, WB
		Va48	IgG1	EIA, WB

POLYCLONAL ANTIBODY

Product name	Cat. #	Host Animal	Remarks
<i>Bacillus anthracis</i> spore antigen	3BA18	rabbit	EIA, WB

Molecular Biology

Product name	Cat. #
SmarTaq polymerase	7S1
<i>Thermus aquaticus</i> DNA polymerase, recombinant	7T1



Miscellaneous

MONOCLONAL ANTIBODIES

Product name	Cat. #	MAb	Subclass	Remarks
Chloramphenicol	5CA4	CAPH11	IgG1	Competitive EIA
		CAPB10	IgG1	Competitive EIA
		CAPA8	IgG2a	Competitive EIA
		CAPG2	IgG1	Competitive EIA
Coxsackievirus B3	3CX3	PV25	IgG2a	EIA
Cyclosporin A	3C13	CSZ22	IgG1	EIA
Egg white avidin	5A1	A3G7	IgG1	EIA, IHC, WB
		A4D12	IgG1	EIA, IHC, WB
		A7B5	IgG1	EIA, IHC, WB
Fibronectin, human	4FBN3	FNG7	IgG1	EIA, WB
		FND5	IgG2a	EIA, WB
		FND1	IgG1	EIA, WB
FITC	5F3cc	2A3cc	IgG1	<i>In vitro</i> , EIA, IHC
FK 506 (Tacrolimus)	4FK42	FK1	IgM	EIA
Galactosidase- β of <i>E. coli</i>	4G9	2E9	IgG1	EIA, WB
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)	5G4	6C5	IgG1	EIA, WB, IF, IHC, IP, C/r data available (WB control)
		4G5	IgG1	EIA, WB, IF, IHC, IP
	5G4cc	6C5cc	IgG1	<i>In vitro</i> , EIA, WB, IF, IHC, IP, C/r data available (WB control)
Guanylate cyclase, human soluble (hsGC)	4GC1	GC25	IgG2a	EIA, WB, β -subunit
His ₆ -Tag	5H1	His17	IgG1	EIA, WB, IP
Horseradish peroxidase (HRP)	4P14cc	2H11cc	IgG2b	<i>In vitro</i> , EIA, IHC, detects all isoforms
Immunoreactive trypsin (IRT)	4IT3	2C4	IgG	EIA
		4A7	IgG	EIA
		5B1	IgG	EIA
Insulin-like growth factor binding protein 5 (IGFBP-5)	4LGB5	IBPF12	IgG1	EIA, WB
		IBPF87	IgG2a	EIA, WB
<i>Legionella pneumophila</i> LPS	3L15	2F10	IgG3	EIA, C/r data available
		5F4RC	IgG3	EIA
Osteocalcin, human	4OC8	3G7	IgG2b	EIA
		1C4	IgG1	EIA
		1C7	IgG1	EIA
		3G8	IgG1	EIA
		2H9	IgG2a	EIA
		6F9	IgG1	EIA
		8H12	IgG1	EIA
Streptavidin from <i>Streptomyces avidinii</i>	3ST10	S8E4	IgG1	EIA, WB, IHC
		S8C12	IgG1	EIA, WB, IHC
		S10D4	IgG1	EIA, WB, IHC
		S3E11	IgG1	EIA, WB, IHC

ANTIGENS

Product name	Cat. #	Purity	Source
Insulin-like growth factor binding protein 5 (IGFBP-5), human, recombinant	8GEF5	>90%	Recombinant

New!

Articles

Selected articles published by HyTest R&D scientists. Continuous investment in scientific research forms a solid foundation for our product development.

2018

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General Terms of Delivery

1. Scope of Application; Definitions

1.1 These General Terms and Conditions shall apply to the sale and purchase of all products delivered by Hytest Ltd, Joukahaisenkatu 6, 20520 Turku Finland, Business Identity Number 0956538-2 ("Hytest") to its clients ("Client"), unless otherwise agreed in writing.

1.2 These General Terms and Conditions shall enter into force on 16 April 2012 and shall be valid until further notice.

2. Ordering, Terms of Delivery and Inspection

2.1 Client shall submit orders by electronic online service, electronic mail, telefax or any other manner to the agreed point of contact. Order means a document or other similar request (in whatever mutually agreed technical form), issued by Client where Client requests Hytest to provide its products. A contract shall be deemed concluded once 1) Hytest has confirmed or otherwise accepted the order issued by the Client or 2) upon the delivery of the products subject to Client's order ("Contract"). Client shall not reschedule or cancel submitted orders.

2.2 The products, as well as prices, specifications, quantities, delivery times and other relevant issues related to the products shall be defined in each Contract. The product shall fulfil the requirements and characteristics set forth in the Contract and comply with the applicable law and regulations issued by authorities.

2.3 Hytest may at its discretion require an advance payment from Client from time to time. Hytest may withhold delivery of the ordered product, if Client is in delay with any payment.

2.4 Unless otherwise agreed in writing, the terms of delivery for the products shall be Ex Works, Turku (Incoterms 2010). All shipments shall be via Federal Express or other similar courier, arranged by Hytest, all charges paid by Client.

2.5 Time of delivery is indicated in the Contract as accurately as possible. However, delivery times are estimates only. Hytest shall promptly inform Client in writing of any expected delay of the delivery, the reasons and effects thereof as well as the estimated new delivery time if possible. Hytest shall not be liable for any loss or damage incurred by Client due to Hytest's failure to meet the delivery times.

2.6 Client shall perform an inspection and quality control of each shipment without delay and latest within fourteen (14) days from the date of the delivery. Client shall without delay inform Hytest in writing of all defects, errors and deficiencies ("Defects") detected in the delivery and shall identify such Defects in sufficient detail.

2.7 Defects, which do not substantially interfere with the use of the product, shall not prevent the acceptance of the delivery.

2.8 The delivery shall be deemed to be accepted, (a) when Hytest has demonstrated that it has corrected all Defects reported by Client in writing which prevented earlier acceptance; or (b) if Client has not presented a written complaint regarding a Defect which prevents acceptance. The criteria mentioned above in this section 2.6 shall not be applied in the acceptance of partial delivery to the extent a Defect in a partial delivery could not have reasonably been noticed prior to the acceptance testing of a later delivered partial delivery.

2.9 Where any valid claim with respect to any of the Contract products based on any Defect in the quality or condition of the Contract products or their failure to meet specification is notified to Hytest in accordance with these General Terms and Conditions, Hytest shall be entitled to replace the defective Contract products (or the part in question) free of charge or at Hytest's sole discretion, refund to the Client the price of the defective Contract products, but the Supplier shall have no further liability to the Client.

2.10 This section 2 states the entire liability and obligations of Hytest and the sole and exclusive remedy of Client with respect to any alleged or actual Defect in the delivery.

3. Title, Risk of Loss and Intellectual Property Rights

3.1 The title to the acquired product shall pass to Client upon payment of the purchase price in full to Hytest's designated bank account.

3.2 All risk of loss or damage to the product shall pass to Client in accordance with the terms of delivery specified in section 2.4.

3.3 Hytest (or its licensors) shall own all rights in and to the products, including any copyright, patent, trademark, design right, trade secret and any other intellectual property rights whether or not capable of registration. For the sake of safeguarding the product safety of the products, Client shall not modify, alter, translate, reverse engineer, decompile, disassemble or attempt to discover the scientific structure of the products, or use the product in an application or environment for which it was not intended or not contemplated to, unless otherwise authorized by Hytest in writing.

4. Prices; Terms of Payment

4.1 If the price of a product has not been agreed in the Contract, Hytest's price list effective at the date of order shall apply. The prices are in Euros, unless otherwise agreed by the parties in writing.

4.2 The prices specified in the accepted order are net prices. Value added tax, any taxes, duty of any kind, export/import costs and other levies or delivery costs are not included in the prices and shall be charged separately. If the amount of value added tax or other public charges determined by the authorities or their collection basis change due to changes in regulations or taxation practice, the prices of the products shall be revised correspondingly.

4.3 Hytest shall invoice for the products upon delivery. The terms of payment are thirty (30) days net from the date the invoice was sent. Interest on delayed payments shall be charged at sixteen (16) per cent per annum. Each invoice will be deemed accepted within seven (7) days after the invoice date, unless Client has advised Hytest in writing by such date of any errors in respect of the relevant invoice.

5. Substituting Products

5.1 Hytest may without the consent of Client replace the product specified in the Contract by other product. Such substituting product shall meet the functional features, specifications and other requirements of the original product set forth in the Contract

6. Infringement of Intellectual Property Rights

6.1 Hytest shall, at its own expense defend the Client against proceedings presented against the Client that a product infringes third party intellectual property rights in the agreed country of delivery or use provided that the Client promptly notifies Hytest in writing of such presented claims and permits Hytest to defend or settle the claims on behalf of the Client and gives to Hytest, at the request of Hytest, all necessary information and assistance available and the necessary authorisations. Hytest shall pay all damages finally awarded in a trial or agreed to be paid to a third party if the Client has acted in accordance with the foregoing.

6.2 Hytest shall, however, not be liable if the claim (a) is asserted by a company, which exercises control over Client or which is controlled by Client in the way control is defined in the Accounting Act; (b) results from alteration of the product by Client or from compliance with Client's instructions; (c) results from the use of the product in combination with any product not supplied by Hytest or (d) could have been avoided by the use of a released and equivalent product offered for use by Hytest without separate charge.

6.3 Hytest disclaims any representations or warranties on the use of Contract product in conjunction with any application or product of the Client, nor accepts any liability where such use of the Contract product or performance of the application infringes, may infringe or is alleged to infringe patents or other intellectual property rights of any third parties. Purchase of the Contract product does not include any license to perform any application of the Client or any third party in any country.

6.4 This section 6 states the entire liability and obligations of Hytest and the sole and exclusive remedy of Client and its customers with respect to any alleged or actual infringement of intellectual property right(s).

7. Confidentiality

7.1 Each party shall keep in confidence all material and information received from the other party and marked as confidential or which should be understood to be confidential, and may not use such material or information for any other purposes than those set forth in the agreement. The confidentiality obligation shall, however, not be applied to material and information, (a) which is generally available or otherwise public; (b) which the party has received from a third party without any obligation of confidentiality; (c) which was in the possession of the receiving party prior to receipt of the same from the other party without any obligation of confidentiality related thereto; or (d) which a party has independently developed without using material or information received from the other party.

7.2 Each party shall promptly cease using confidential material and information received from the other party and, unless the parties separately agree on destruction of such material, return the material in question (including all copies thereof), when the agreement has terminated or when the party no longer needs the material or information in question for the purpose stated in the agreement. Each party shall, however, be entitled to retain the copies required by law or regulations.

7.3 The rights and responsibilities under this section 7 shall survive the termination or cancellation of the agreement.

8. Force Majeure

8.1 Neither party shall be liable for delays and damages caused by an impediment beyond his control, which he could not have reasonably taken into account at the time of the conclusion of the agreement, and whose consequences he could not reasonably have avoided or overcome. Strike, lockout, boycott and other industrial action shall constitute a force majeure event also when the party concerned is the target or a party to such an action.

8.2 A force majeure event suffered by a subcontractor of a party shall also discharge such party from liability, if subcontracting from other source cannot be made without unreasonable costs or significant loss of time.

8.3 Either party shall without delay inform the other party of a force majeure event in writing. The party shall correspondingly inform the other party of the termination of the force majeure event.

9. Product Liability

9.1 Client shall use the product literature and the technical and scientific documentation which Hytest delivers to Client. Hytest shall indemnify and hold Client harmless against damages finally awarded in actions against Client and instituted by third parties under the applicable product liability legislation in force designated country to the extent such awarded damages concern liability for defective products or negligence of Hytest in respect of damage to private property other than product or death or personal injury and which awarded damages have arisen from a defect subsisting in a product at the time of its delivery to Client.

9.2 This section 9 states the entire liability and obligations of Hytest and the sole and exclusive remedy of Client and its customers for any product liability claims.

10. Disclaimer of Warranties

10.1 To the fullest extent permitted by applicable law, Hytest disclaims all promises, representations and warranties with respect to Contract product, including without limitation implied warranties of merchantability, satisfactory quality and fitness for a particular purpose, even if Hytest has been advised of the possibility of such damages.

11. Damages; Limitations of Liability

11.1 Hytest's liability based on the delivery of the products subject to these terms and conditions for direct expenses and damages caused by breach of Contract shall not exceed fifteen (15) per cent of the price of the products which are the subject matter of the claim.

11.2 Neither Party shall be liable to the other Party for any indirect, incidental, special, punitive or consequential loss or damage, including but not limited to loss of profits or revenue, loss of use, loss of customership, loss of goodwill, cost of capital or investment, damage caused due to decrease or interruption in production or turnover whether arising under these terms and conditions, tort, or any other theory of liability, or otherwise.

11.3 The limitations of liability shall not apply to damages caused by willful conduct or gross negligence or breach of confidentiality provisions in section 7.

12. Applicable Law; Settlement of Disputes

12.1 This agreement shall be governed by the laws of Finland. The United Nations Convention on Contracts for the International Sale of Goods done at Vienna April 11, 1980 is excluded.

12.2 In the event of any controversy, claim, or dispute arising out of or relation to any provisions of these general terms, the parties shall try to settle those conflicts amicably between themselves within ninety (90) days of either party's request for amicable settlement negotiations. Should the parties fail to reach a settlement, the matter in dispute shall be finally and exclusively settled by arbitration under the Rules of the Arbitration board of the Finnish Central Chamber of Commerce. The Arbitral tribunal shall be composed of a sole arbitrator and the place of arbitration shall be Turku, Finland. The language to be used in arbitral proceedings shall be English.

12.3 The parties have nevertheless right to claim for outstanding receivables under these terms and conditions at the district court of Hytest's domicile.

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