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Dear Customers,

Our company has a 15 year-long experience of manufacturing antigens and antibodies. Now our company is among world leaders in production of tumor marker antigens. All reagents listed below are intended for in vitro research use only and not for in vivo applications. Our own hybridoma collection enables us to manufacture large quantities of purified monoclonal antibodies for in vitro diagnostic use.

Our additional service may include:

- conjugation of all listed antibodies and antigens to biotin or HRPO;
- providing application data for construction of immunoassay kits from our reagents.
- custom production of monoclonal antibodies;

We are ready to supply product samples according to the Customers' requests. Depending on nature of a product, lot-to-lot consistency and Customer's needs, we can supply both typical and lot-representative samples. In latter case, the suggested ordered product bulk may be reserved for the Customer for up to 10 weeks. If not otherwise required by the Customer, the product bulk is stored and shipped under the same temperature conditions as the representative sample.

As the auxiliary reagents, we are ready to offer you:

- HRPO conjugate stabilizer-dilution buffer;
- stabilizers and preservatives for antibody coating on microwells;

Please contact us for lot-specific data sheets, actual availability and lead times.

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Natural antigens and their derivatives

Human Thyrogloblin (TG) purified

Catalogue	R132
<i>Source and infection testing</i>	Thyroid tissue, surgery, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remark on purification method</i>	Gel filtration and ion-exchange chromatography
<i>Measurement of concentration and specific activity</i>	OD280 and EIA (Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>95% by SDS-PAGE; essentially free of TPO
<i>Buffer</i>	Dried from PBS, pH 7.4-7.6, 0.05% sodium azide.
<i>Storage</i>	Refrigerate at +2-8°C for 12 months or store at -20°C for at least 3 years
<i>Applications</i>	Solid phase antigen in immunoassays (coating Ag in EIA K132 Xema-Medica), iodination
<i>Presentation</i>	0.1 mg
<i>Concentration range</i>	0.5-5 mg/ml

Human Myeloperoxidase (MPO) purified

Catalogue	R133
<i>Source and infection testing</i>	Donor leukocyte mass, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Affinity purified
<i>Measurement of concentration and specific activity</i>	OD280
<i>Format</i>	Solution frozen
<i>Purity data</i>	>95% by SDS-PAGE; essentially free of lactoferrin
<i>Buffer</i>	0.5M NaCl, 20 mM Tris, pH 7.6
<i>Storage</i>	Store at -20°C or -70°C for at least 3 years
<i>Applications</i>	Solid phase antigen in immunoassays (coating Ag in EIA K133 Xema-Medica), in vitro research
<i>Presentation</i>	0.1 mg
<i>Concentration range</i>	1-5 mg/ml



Human Thyroid Stimulating Hormone (hTSH) standard grade

Catalogue	R201C
<i>Source and infection testing</i>	Pituitary glands, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified without immunoaffinity step
<i>Measurement of concentration and specific activity</i>	Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>40% by SDS-PAGE; main impurities: albumin, gamma-globulins, GH, FSH
<i>Buffer</i>	Dried from 0.05M PBS, pH 7.4; contains lactose 20 mg/ml
<i>Storage</i>	Refrigerate at +2-8°C for 12 months or store at -20°C for at least 3 years
<i>Applications</i>	Calibrator for immunoassays (EIA K201 Xema-Medica), further purification, functional studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	<i>This product will be soon available in purified form. Please inquire.</i>
<i>Concentration range</i>	3-5 IU/mg

Human Luteinizing Hormone (hLH) standard grade

Catalogue	R202C
<i>Source and infection testing</i>	Pituitary glands, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified without immunoaffinity step
<i>Measurement of concentration and specific activity</i>	Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>40% by SDS-PAGE; main impurities: albumin, gamma-globulins, GH, FSH
<i>Buffer</i>	Dried from 0.05M PBS, pH 7.4; contains lactose 20 mg/ml
<i>Storage</i>	Refrigerate at +2-8°C for 12 months or store at -20°C for at least 3 years
<i>Applications</i>	Calibrator for immunoassays (EIA K202 Xema-Medica), further purification, functional studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	<i>This product will be soon available in purified form. Please inquire.</i>
<i>Concentration range</i>	2-5 kIU/mg



Human Follicle Stimulating Hormone (hFSH) standard grade

Catalogue	R203C
<i>Source and infection testing</i>	Pituitary glands, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified without immunoaffinity step
<i>Measurement of concentration and specific activity</i>	Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>40% by SDS-PAGE; main impurities: albumin, gamma-globulins, GH, LH
<i>Buffer</i>	Dried from 0.05M PBS, pH 7.4; contains lactose 20 mg/ml
<i>Storage</i>	Refrigerate at +2-8°C for 12 months or store at -20°C for at least 3 years
<i>Applications</i>	Calibrator for immunoassays (EIA K203 Xema-Medica), further purification, functional studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	<i>This product will be soon available in purified form. Please inquire.</i>
<i>Concentration range</i>	3-6 kIU/mg

Human Growth Hormone (hGH - Somatotropin) standard grade

Catalogue	R204C
<i>Source and infection testing</i>	Pituitary glands, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified without immunoaffinity step
<i>Measurement of concentration and specific activity</i>	Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>40% by SDS-PAGE; main impurities: albumin, PRL, LH
<i>Buffer</i>	Dried from 0.05M PBS, pH 7.4; contains lactose 20 mg/ml
<i>Storage</i>	Refrigerate at +2-8°C for 12 months or store at -20°C for at least 3 years
<i>Applications</i>	Calibrator for immunoassays (EIA K204 Xema-Medica), further purification, functional studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	<i>This product will be soon available in purified form. Please inquire. Recombinant form is available.</i>
<i>Concentration range</i>	1-2 IU/mg



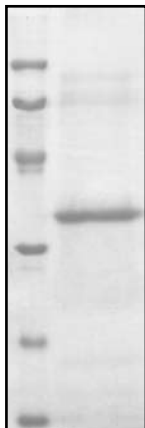
Human Prolactin (hPRL) standard grade

Catalogue	R206C
<i>Source and infection testing</i>	Pituitary glands, tissue extracts tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified without immunoaffinity step
<i>Measurement of concentration and specific activity</i>	Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>40% by SDS-PAGE; main impurities: albumin, GH, LH
<i>Buffer</i>	Dried from 0.05M PBS, pH 7.4; contains lactose 20 mg/ml
<i>Storage</i>	Refrigerate at +2-8°C for 12 months or store at -20°C for at least 3 years
<i>Applications</i>	Calibrator for immunoassays (EIA K206 Xema-Medica), further purification, functional studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	<i>This product available as purified form. Please inquire.</i>
<i>Concentration range</i>	15-25 IU/mg



Human Prostate Specific Antigen (PSA) purified

Catalogue	R221
<i>Source and infection testing</i>	Donor seminal fluid tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Salt precipitation
<i>Measurement of concentration and specific activity</i>	OD280, Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen
<i>Purity data</i>	>95% by SDS-PAGE
<i>Buffer</i>	0.1M PBS, pH 7.2-7.4, 0.1% sodium azide
<i>Storage</i>	Frozen at -20°C or below; do not keep in liquid form for longer than 48 hours
<i>Applications</i>	Immunogen, calibrator for immunoassays (EIA K221 Xema-Medica), further purification, in vitro studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available in sterile (mitogen free) purified form, in standard grade form (recovery ca. 20-40% by total protein)
<i>Concentration range</i>	1-5 mg/ml



1 - Markers: 97, 67, 45, 36, 29, 20 kDa
2 - R221

1 2



Human CA-125 Antigen purified

Catalogue	R222
<i>Source and infection testing</i>	Ascitic fluid, adenocarcinoma, single patient tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified by salt extractions and subsequent chromatography without perchloric acid treatment
<i>Measurement of concentration and specific activity</i>	OD280, Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen
<i>Purity data</i>	Specific activity per mg > 100 kIU/mg total protein. Purity was detected by SDS-PAGE: the absence of the bands in SDS-PAGE (Comassie R250 as dye) means the purity of the antigen CA125.
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.05% sodium azide
<i>Storage</i>	Frozen at -20°C or below
<i>Applications</i>	Immunogen, calibrator for immunoassays (EIA K222 Xema-Medica), in vitro studies
<i>Presentation</i>	0.1 ml
<i>Supplementary information</i>	This product is available in standard grade form (recovery ca. 20-40% by total protein)
<i>Concentration range</i>	250-1500 kIU/ml

Human CA19-9 Antigen purified

Catalogue	R223
<i>Source and infection testing</i>	Metastatic liver, carcinoma, single patient tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Gel filtration, ion-exchange chromatography. Purified without perchloric acid treatment
<i>Measurement of concentration and specific activity</i>	OD280, Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen
<i>Purity data</i>	Purity was detected by SDS-PAGE: the absence of the bands in SDS-PAGE (Comassie R250 as dye) means the purity of the antigen CA199.
<i>Buffer</i>	PBS, pH 7.2-7.4, 3% sucrose, 0.05% sodium azide
<i>Storage</i>	Frozen at -20°C or below
<i>Applications</i>	Immunogen, calibrator in immunoassays (EIA K223 Xema-Medica), in vitro studies
<i>Presentation</i>	0.1 ml
<i>Supplementary information</i>	This product is available in standard grade form (recovery ca. 20-40% by total protein)
<i>Concentration range</i>	250-1000 kIU/ml



Human Carcinoembryonic Antigen (CEA) purified

Catalogue	R224
<i>Source and infection testing</i>	Metastatic liver, carcinoma, single patient tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified using immunoaffinity column
<i>Measurement of concentration and specific activity</i>	OD280, Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen
<i>Purity data</i>	>95% by SDS-PAGE, diffuse band in the range 180-200 kD; poorly stained by Coomassie R250
<i>Buffer</i>	20mM Tris, 0.1M NaCl, 0,05% azide Na, pH 7.4-7.6 or PBS
<i>Storage</i>	Frozen at -20°C or below
<i>Applications</i>	Immunogen, calibrator in immunoassays (EIA K224 Xema-Medica), in vitro studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available in standard grade form (>50-80% by SDS-PAGE, diffuse band in the range 180-200 kD; main impurities: albumin, haptoglobin) and sterile for in vitro studies (e.g. lymphocyte stimulation)
<i>Concentration range</i>	1-5 mg/ml



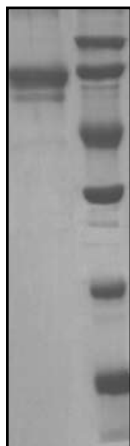
1 - Markers: 97,67, 45, 36, 29, 20 kDa
2 - R224

1 2



Human Alpha-Fetoprotein (AFP) highly purified

Catalogue	R225
<i>Source and infection testing</i>	Cord serum tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified by special method to ensure maximal recovery of immunoreactive protein
<i>Measurement of concentration and specific activity</i>	OD280, Immunoassays (Roche Elecsys, Xema-Medica)
<i>Format</i>	Solution frozen / freeze dried
<i>Purity data</i>	>98% of AFP isoforms and fragments, >92% of single 70 kDa AFP band by SDS-PAGE
<i>Buffer</i>	PBS, 0,05% azide Na, pH 7.4-7.6
<i>Storage</i>	Frozen at -20°C or below
<i>Applications</i>	Immunogen, calibrator in immunoassays (EIA K225 Xema-Medica), in vitro studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available in standard grade form (not less than 40% content of AFP band in SDS-PAGE. Albumin and prealbumin are the main impurities) for further purification
<i>Concentration range</i>	1-10 mg/ml



1 - R225
 2 - markers: 97, 67, 45, 36, 29, 20 kDa

1 2



Human CA15-3 Antigen standart grade

Catalogue	R229C
<i>Source and infection testing</i>	Human fluids tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	High speed centrifugation, salt precipitation, delipidization
<i>Measurement of concentration and specific activity</i>	EIA (CanAg)
<i>Format</i>	Solution liquid
<i>Purity data</i>	not applicable
<i>Buffer</i>	1M NaCl, 1% Triton X100, 0.1% azide Na
<i>Storage</i>	Refrigerate at +2-8°C for 12 months
<i>Applications</i>	Immunogen, calibrator in immunoassays
<i>Presentation</i>	0.1 ml
<i>Supplementary information</i>	This product is unavailable in purified form
<i>Concentration range</i>	5-10 kIU/ml

Human CYFRA 21-1 Antigen standard grade

Catalogue	R236C
<i>Source and infection testing</i>	Human mammary carcinoma cell line MCF7
<i>Remarks on purification method</i>	Non processed induced cell culture medium
<i>Measurement of concentration and specific activity</i>	Immunoassay (Roche Elecsys)
<i>Format</i>	Solution frozen
<i>Purity data</i>	not applicable
<i>Buffer</i>	Cell culture medium as is
<i>Storage</i>	Frozen at -20°C or below
<i>Applications</i>	Further purification, immunoassay calibration
<i>Presentation</i>	2.0 ml
<i>Supplementary information</i>	This product is unavailable in purified form
<i>Concentration range</i>	5-10 ug/ml



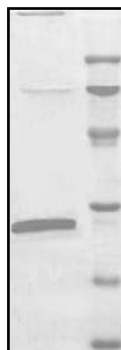
Human CA72-4 Antigen standard grade

Catalogue	R244C
<i>Source and infection testing</i>	Metastatic liver, carcinoma, single patient tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified without perchloric acid treatment
<i>Measurement of concentration and specific activity</i>	Immunoassays (Roche Elecsys)
<i>Format</i>	Solution frozen
<i>Purity data</i>	>50-80% by SDS-PAGE, diffuse band in the range 40 kD; main impurity: albumin
<i>Buffer</i>	PBS, 0,05% azide Na, pH 7.4-7.6
<i>Storage</i>	Frozen at -20°C or below
<i>Applications</i>	Immunogen, in vitro studies, calibrator in immunoassay
<i>Presentation</i>	0.1 ml
<i>Supplementary information</i>	This product is unavailable in purified form
<i>Concentration range</i>	50-500 kUI/ml



Human C-reactive protein (CRP) purified

Catalogue	R250
<i>Source and infection testing</i>	Septic plasma tested negative for HBs antigen, HCV Ab, HIV I/II Ab by FDA approved EIA methods.
<i>Remarks on purification method</i>	Purified by specific ligand affinity
<i>Measurement of concentration and specific activity</i>	Total protein by OD280 nm, immunoassay (EIA Xema-Medica)
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE; specifically depleted from Serum amyloid A
<i>Buffer</i>	0.3M NaCl, 20mM Tris, pH 8.0, 0.1% azide Na
<i>Storage</i>	Refrigerated at +2-8°C for at least 3 years. May form a reversible precipitate. Do not freeze!
<i>Applications</i>	Calibrator in immunoassays (EIA K250 Xema-Medica), immunization, in vitro studies
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable in standard grade form
<i>Concentration range</i>	1-10 mg/ml



1 - R250
2 - Markers: 97, 67, 45, 36, 29, 20 kDa

1 2



Recombinant Yeast HBsAg, ayw1 subtype purified

Catalogue	RY01
<i>Source and infection testing</i>	Pichia pastoris yeast, recombinant
<i>Remarks on purification method</i>	Purified without immunoaffinity step with maximal recovery of immunoreactivity
<i>Measurement of concentration and specific activity</i>	Lowry, immunoassays (Abbott, Murex EIA)
<i>Format</i>	Solution frozen
<i>Purity data</i>	Two bands of monomeric plus dimeric forms give combined >95% by SDS-PAGE
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% Na azide
<i>Storage</i>	Refrigerate up to 1 month, freeze for longer period. Strictly avoid freeze thaw cycles.
<i>Applications</i>	Calibrator in immunoassay, solid phase antigen in immunoassay, in vitro studies, HRPO conjugation
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate and sterile for in vitro studies
<i>Concentration range</i>	0.2-2 mg/ml



Monoclonal antibodies and HRPO conjugates

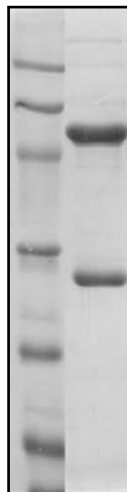
Murine Monoclonal Antibodies to human IgG gamma-chain

Catalogue /Clone	XA6
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural IgG
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity. Human IgG (gamma-chain specific). Equal reactivity with all Human IgG subclasses and does not crossreact with other human immunoglobulin classes.
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Immunoassays; immunoblotting.
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate (EIA RK101-RK106, RK131, RK132 Xema-Medica)
<i>Concentration range</i>	0.2-10 mg/ml



Murine Monoclonal Antibody to Hepatitis B Surface Antigen (HBs)

Catalogue / Clone	XB10
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural HBs antigen
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Capture in immunoassays; immunoblotting, HRPO conjugation
<i>Presentation</i>	0.1 mg
<i>Concentration range</i>	0.5-10 mg/ml



M: 92, 68, 45, 29, 21, 12, 6,5 kDa

Typical SDS-PAGE for all antibodies
which we produce (with mercaptoethanol)

M mAbs



Murine monoclonal antibodies to gliadin – XGY series

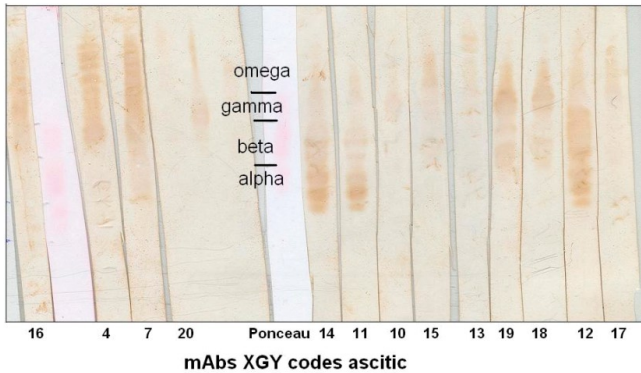
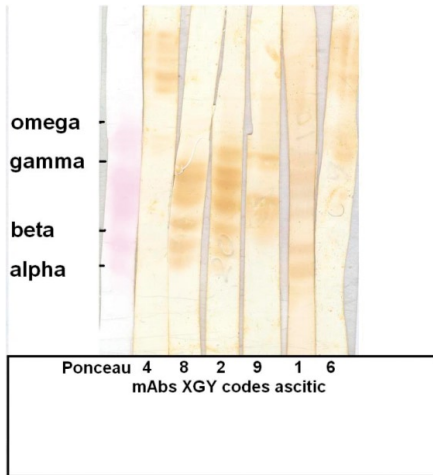
CROSS REACTIVITY

Clone Id	Isotype	Specificity by immunoblotting	Proposed epitope group	Oat (Avenin)	Corn (Zein)	Remark
XGY1	IgG1	alpha, beta, gamma, omega	1A	YES	NO	optimized for HRPO labelling
XGY2	IgG2a	alpha, beta, gamma?	1B	NO	NO	not suitable for HRPO labelling by periodate
XGY3	IgG1	non reactive in our method	2	NO	NO	
XGY4	IgG1	Gamma, omega	1A	YES	NO	
XGY5	IgG1	non reactive in our method	1B	NO	NO	
XGY6	IgG1	omega, gamma?	1C	YES	NO	available as HRPO conjugate
XGY7	IgG1	(beta), gamma, omega	1B	NO	NO	
XGY8	IgG1	beta, alpha?	3	NO	NO	optimized for coating vs XGY1
XGY9	IgG1	beta, gamma	1C	NO	NO	
XGY10	IgG1	gamma	ND	YES	NO	
XGY11	IgG1	alpha, beta, gamma	ND	weak	weak	
XGY13	IgM	(gamma), omega	ND	weak	YES	
XGY14	IgG1	alpha, beta, gamma, (omega)	ND	weak	NO	
XGY15	IgG1	omega	ND	NO	NO	
XGY16	IgG1	gamma, omega	ND	YES	NO	
XGY17	IgG1	gamma, (omega)	ND	weak	NO	
XGY18	IgG1	beta, gamma	ND	YES	NO	
XGY19	IgG1	beta, gamma, (omega)	ND	weak	weak	
XGY20	IgG1	beta?, omega? WEAK	4	NO	weak	Non reactive against DURUM wheat

Immunoblotting of gliadin preparations by XGY series mAbs
Gliadin preparation: mixed commercial



Electrophoresis: PAGE 6.5%, pH 3.1
Immunostaining: anti-mouse Ig-biotin, SA-HRPO,

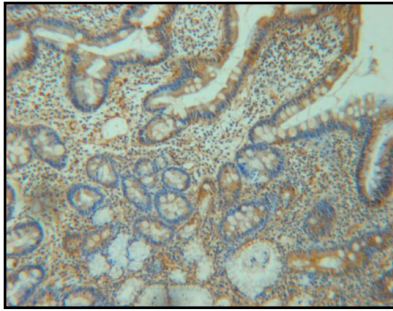


Murine monoclonal antibodies to tissue transglutaminase – XTG series

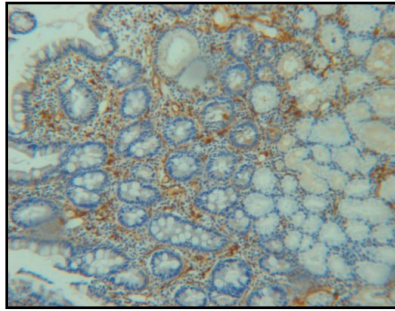
Clone Id	Isotype	IHC Duodenum	IHC Lung alveolitis	Remark
XTG3	IgG1	ND	ND	
XTG4	IgG1	interstitial	interstitial weak	available also as biotinylated
XTG5	IgG1	surface + interstitial	interstitial strong	available also as biotinylated

Immunohistochemistry pictures of anti-tTG mAbs of XTG series
 Immunostaining: anti-mouse Ig-biotin, SA-HRPO, DAB

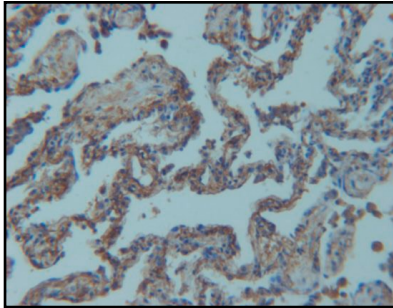
mAb XTG4 human duodenum, duodenitis



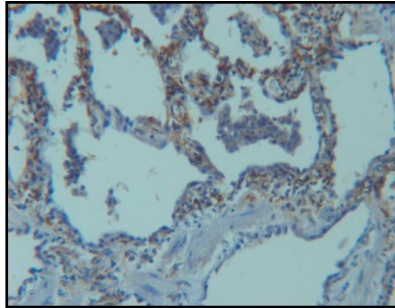
mAb XTG5 human duodenum, duodenitis



mAb XTG4 – human lung, alveolitis



mAb XTG5 – human lung, alveolitis



Murine Monoclonal Antibody to human GH

Catalogue /Clone	XGH6 XGH7
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Growth hormone, purified without immunoaffinity step
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity nonreact with hProlactin
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide or 50% ammonium sulfate
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	XGH7 antibodies of solid phase matches with XGH6 (EIA RK204 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.5-10 mg/ml

Murine Monoclonal Antibody to human Prolactin

Catalogue /Clone	XP1, PRL2
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Prolactin, purified without immunoaffinity step
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide or 50% ammonium sulfate
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Immunoassays, affinity purification of Prolactin
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.5-10 mg/ml



Murine Monoclonal Antibody to human FSH/LH/HCG alfa chain

Catalogue /Clone	XF1
<i>Isotype</i>	IgG
<i>Immunogen</i>	Purified natural FSH alpha chain
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide or 50% ammonium sulfate
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Capture matches XL1, XF2 (EIA RK2022, RK2032 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.5-25 mg/ml

Murine Monoclonal Antibody to human Luteinizing Hormone, beta chain (LH)

Catalogue /Clone	XL1
<i>Isotype</i>	IgG
<i>Immunogen</i>	Purified natural LH
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity Nonreact with FSH, TSH, HCG
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide or 50% ammonium sulfate
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	XL1 antibodies of solid phase matches with XF1 (EIA RK2022, Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-10 mg/ml



Murine Monoclonal Antibody to human Follicle Stimulating Hormone, beta chain (FSH)

Catalogue /Clone	XF2
<i>Isotype</i>	IgG
<i>Immunogen</i>	Purified natural FSH
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity No cross-reactivity with LH, TSH, HCG
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide or 50% ammonium sulfate
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	XF2 antibodies of solid phase matches with XF1(EIA RK2032, Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-10 mg/ml

Murine Monoclonal Antibodies to Human Chorionic Gonadotropin, beta chain (HCG)

Catalogue /Clone	XH51
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural HCG
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity No cross reactivity with LH, TSH, FSH
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15 M NaCl, 10 mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20 or below for longer period.
<i>Applications</i>	Immunoassay XH51 antibodies of solid phase matches with XF1(EIA RK205, Xema-Medica), immunoblotting
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-20 mg/ml



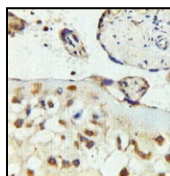
Murine Monoclonal Antibody to human Thyroid Stimulating Hormone beta-subunit (TSH)

Catalogue /Clone	XTB1 XTB2
<i>Isotype</i>	IgG
<i>Immunogen</i>	Purified natural HCG beta
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity No cross-reactivity with LH, TSH, FSH
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide or 50% ammonium sulfate
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	XTB1 antibodies of solid phase matches with XTB2Fab (EIA RK201 Xema-Medica), immunoblotting
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate (Fab fragment)
<i>Concentration range</i>	0.5-20 mg/ml

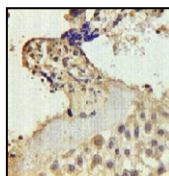


Murine Monoclonal Antibody to human Alpha-Fetoprotein (AFP)

Catalogue /Clone	XFP2, XA2
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural AFP
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	XA2 antibodies of solid phase matches with XFP2 (EIA RK225 Xema-Medica), immunoblotting, IHC
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.5-25 mg/ml



Immunostaining
with XFP2: placenta



Immunostaining
with XFP2: placenta

Murine Monoclonal Antibodies to human IgE epsilon-chain

Catalogue /Clone	XTE4 (epsilon chain), X5D4 (alfa chain) X4F4 (alfa chain)
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural IgE (epsilon; alfa)
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	XTE4 antibodies of solid phase matches with AS200 (EIA RK200 Xema-Medica), immunoblotting X5D4 antibodies of solid phase matches with X4F4
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.5-15 mg/ml



Murine Monoclonal Antibody to Progesterone

Catalogue /Clone	XM207
<i>Isotype</i>	IgG2b
<i>Immunogen</i>	Progesterone-11(HS)-BSA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity, Ka = 3.0x10exp9 Mexp-1
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, PBS, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Capture antibodies in immunoassays matches T207X (EIA K207 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-5 mg/ml

Cross-reactivity data

Steroid	Cross-reactivity,% 50% displacement of Progesterone-11-125-Iodine)
Progesterone	100
17-Hydroxyprogesterone	1.0
11-Hydroxyprogesterone	25
5-alpha-pregnane-3,20 dionene	10.5
Corticosterone	0.01
Pregnenolone	0.9
Deoxycorticosterone	0.30
Deoxycortisol	0.03
Cortisol	0.002



Murine Monoclonal Antibody to Testosterone

Catalogue /Clone	XM209
<i>Isotype</i>	IgG2a
<i>Immunogen</i>	Testosterone-3-CMO-BSA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity, Ka = 2.5x10exp9 Mexp-1
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, PBS, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Capture antibodies in immunoassays matches T209X (EIA K209 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-5 mg/ml

Cross-reactivity data

Steroid	Cross-reactivity, % 50% displacement of Testosterone-3-125-Iodine)
Testosterone	100
5-alpha-dehydrotestosterone	16
Androstendiol	1.0
Androstendione	0.4
Androsterone	< 0.1
Dehydroepiandrosterone	< 0.1
Progesterone	< 0.1
Estradiol, Estriol	< 0.01
Cortisol, Pregnenolone	< 0.01



Murine Monoclonal Antibody to Cortisol

Catalogue /Clone	XM210
<i>Isotype</i>	IgG2a
<i>Immunogen</i>	Cortisol-3(CMO)-BSA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity, $K_a = 1.7 \times 10^9 \text{ M}^{-1}$
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, PBS, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Capture antibodies in immunoassays matches T210X (EIA K210 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-8 mg/ml

Cross-reactivity data

Steroid	Cross-reactivity, % 50% displacement of cortisol-3-125-Iodine)
Cortisol	100
11-Deoxycortisol	0.9
Prednisolone	5.6
Corticosterone	0.6
11-Deoxycorticosterone	< 0.1
Progesterone	< 0.1
17 -Hydroxyprogesterone	< 0.1
Testosterone, Estradiol, Estriol	< 0.1
Danazol	< 0.01



Murine Monoclonal Antibody to Thyroxine (T4)

Catalogue / Clone	XM212
<i>Isotype</i>	IgG2a
<i>Immunogen</i>	T4-3-CONH-BSA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity, K _a = 5.1x10 ⁹ Mexp-1
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, PBS, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Capture antibodies in immunoassays matches T212X (EIA K212 (total T4), K2142 (free T4) Xema-Medica) NOT APPLICABLE FOR RIA
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.5-8 mg/ml

Cross-reactivity data

Substance	Cross-reactivity, % 50% displacement of T4-125-Iodine
L-Thyroxine	100
D-Thyroxine	30
T3	0.5

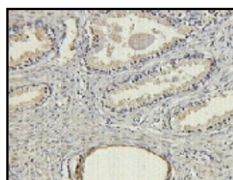


Murine Monoclonal Antibody to human PSA free

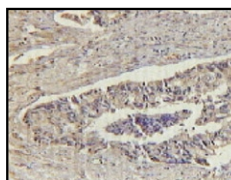
Catalogue /Clone	PS1
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural PSA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Immunoassays (EIA K231 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml

Murine Monoclonal Antibody to human PSA total

Catalogue /Clone	PS2, PS5, PS6
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural PSA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	PS2 antibodies of solid phase matches with PS6 (EIA RK221 (PSA total) Xema-Medica); matches with PS1 (EIA RK231 (PSA free) Xema-Medica), IHC
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml



Immunostaining with PS2:
benign prostatic adenoma



Immunostaining with PS2:
prostatic adenocarcinoma



Murine Monoclonal Antibodies to antigen CA125 (ISOBM workshop TD1)

Catalogue /Clone	X52 X75 X306 X325
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified human ovarian mucin antigen from ascitic fluid
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	X306 as the solid phase capture antibodies in immunoassays matches X52, X325, X75 (EIA K222 Xema-Medica), non-reactive in IHC on paraffin embedded tissue except X325.
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate (X306 - not recommended for HRPO labeling)
<i>Concentration range</i>	0.1-15 mg/ml

Epitope specificity of CA125 monoclonal antibodies was determined by competitive binding to enzyme-labelled human single patient CA125 antigen. Antigen: natural human CA125 (lot CA23) isolated from single patient ovarian tumour ascitic fluid; purification method did not include affinity binding to monoclonal antibodies.

Conjugate of human CA125 lot CA23 with HRPO enzyme (Faizyme, Lansdowne, RSA) was made performed by perjodate method and was diluted 1:500 by EIA buffer.

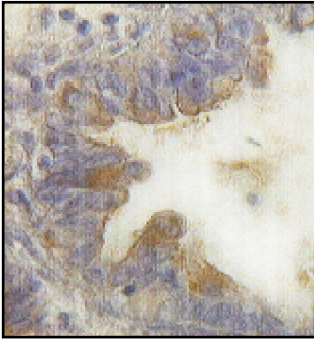
The results show that mAb X306 clearly belongs to A1 (OC125 like) epitope group; mAb X75 shows high homology to B1 (M11 like) group.

Recommended pairs for immunoassays are:

X306 solid	X52-HRPO conjugate – highest signal
X325 solid	X52-HRPO conjugate
X306 solid	X325-HRPO conjugate



Anti-CA125 mAbs application: IHC



Immunostaining with X325:
ovarian cancer



Immunostaining with X325:
lung adenocarcinoma

Cross-inhibition of Xema CA125 mAbs and reference mAbs from TD1 workshop.

Rows – liquid phase antibodies; columns – immobilized antibodies.

Inhibition percentages (see table) were calculated by dividing the average OD in actual wells by the average OD in control wells.

	K95 (ref.A1)	K93 (ref.A2)	K90 (ref.B1)	X52	X75	X306	X325	Epitope group
X52	0	2	28	85	50	0	41	B2
X75	0	6	82	85	87	0	78	B1
X306	88	78	5	3	5	91	5	A1
X325	0	0	40	41	66	3	89	B1

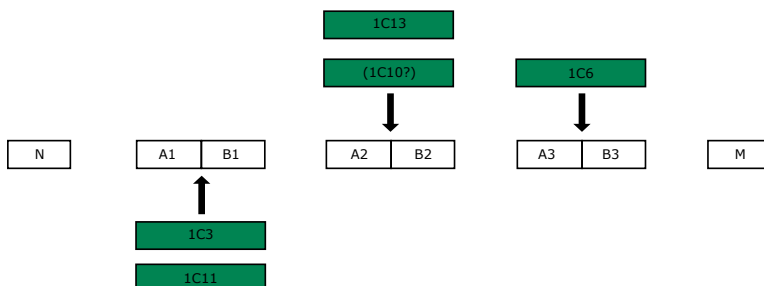


Murine Monoclonal Antibodies to carcinoembryonic antigen (CEA, ISOBM TD8 workshop)

Catalogue /Clone	X3 (low affinity) 1C3 1C6 1C7 1C10 1C11 1C13
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural CEA
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	IHC (clone 1C10, 1C7, 1C3)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml

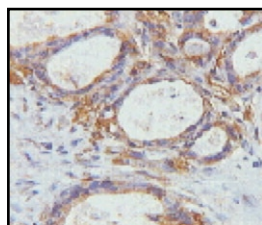
Antibody	Isotype	Species	Gold group	Affinity (K_d in nmol/L)		Reactivity with NCA
				CEA	NCA-2	
1C3	IgG1	mouse	4	0.6	0.6	+
1C6	IgG1	mouse	1	2.5	low binding	-
1C10	IgG1	mouse	2†	5	0.1	-
1C11	IgG1	mouse	4'	1.5	1.5	+
1C13	IgG1	mouse	2	>8	>12	-

Specificity of anti-CEA mAbs according to NABM scheme

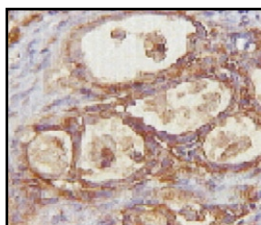


anti-CEA mAbs application: IHC in metastasis of pancreatic carcinoma:

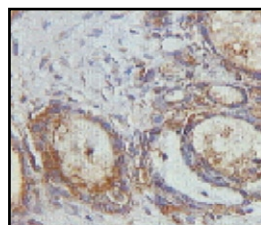
Clone	Brightness	Cytoplasmic staining	Membrane staining	Background staining	Staining of mucus	Pictures
1C11	100	3+	3+	2+	1+	1
1C13	none	none	none	none	3+	none
1C3	150	3+	3+	absent	3+	2
1C6	100	2+	3+	1+	3+	3
1C7	110	1+	3+	absent	2+	4
1C10	100	1+	3+	absent	absent	5



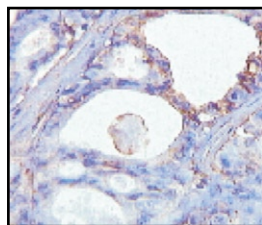
pic. 1



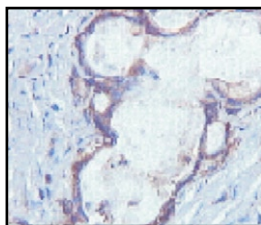
pic. 2



pic. 3



pic. 4



pic. 5

New mAbs to CEA

Antibody	Isotype	Species	Gold group	Remark
2C1	IgG1	mouse	unclear	
2C2	IgG1	mouse	5	
3C1	IgG1	mouse	4? 4"	Capture in EIA
3C2	IgG1	mouse	1	CIS F6 like
3C4	IgG1	mouse	4	
3C5	IgG1	mouse	1	CIS F6 unlike
3C6	IgG1	mouse	1	CIS F6 unlike Tracer in EIA
3C7	IgG1	mouse	4	
3C8	IgG1	mouse	5	
3C9	IgG1	mouse	4"	

Recommended for IHC: clones 1C3, 1C7, 1C10, 2C5, 3C4, 3C6, 3C7, 3C9



Murine Monoclonal Antibodies to Polymorphic Epithelial Mucin (PEM, MUC1)

Catalogue /Clone	X19 X108 X158
<i>Isotype</i>	IgG1
<i>Immunogen</i>	Purified natural MUC1
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15M NaCl, 10mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	X108 antibodies of solid phase matches with X19 (EIA RK226, RK227 Xema-Medica), IHC
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate (we are not recommend for HRPO labeling)
<i>Concentration range</i>	0.1-15 mg/ml

MUC1 (also known as PEM – polymorphic epithelial mucin) is an ubiquitous epithelial cell surface antigen expressed on wide variety of epitheliocytes. This antigen is also shed from the cells into body fluids including saliva and normal serum.

MUC1 molecule has a complex structure including extracellular 20 amino acid tandem repeat (VNTR region). This part of the molecule is most commonly used as the target for mAb binding. Within VNTR, the most popular locus for mAb recognition, is 7 aminoacid frame TRPAPGS. All well known reference mAbs (DF3, b12, B27.29) are directed to the epitope within this narrow frame.

The natural mucins purified from tumors can contain extraordinarily high contents of MUC1 peptide but little to none CA15-3. Certainly, recombinant MUC1 peptides never contain "full" CA15-3 antigen.

The fine differences between anti-MUC1 mAbs have no serious influence on their application in immunohistochemistry, immunoblotting, immuno-imaging or cytofluorometry provided the MUC1 itself is the target molecule.

No MUC1 mAb can replace the mammary specific mAbs eg 115D8 in cell sorting or stem cell enrichment.

None of MUC1 mAbs can be considered as 'mammary-specific'.



To design the immunoassay for MUC1 in serum, there are three different strategies:

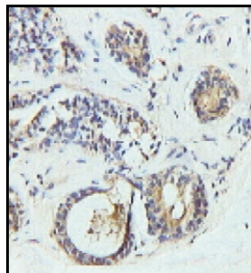
- 1) To license the reference mAbs (present owner – Fujirebio Inc.)
This was done by most of the major IVD makers.
- 2) To construct a new pair from matched mAbs and prove its clinical relevance on serum panels.
Certainly this assay cannot be called "CA15-3".
This was done eg by Roche with their MCA assay.
- 3) To "copy" the specificity of the existing reference assays by combining two mAbs which "mimic" the specificity of the reference ones.

This approach was used by CanAg. Their capture mAb is practically identical to 115D8; and tracer mAb differs only slightly from DF3. This assay can be considered as the good copy of the original CA15-3.

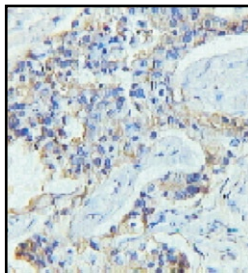
Xema-Medica offers different mAbs to MUC1 which are able to "mimic" the specificity of the reference ones:

- 1) MAb X19 recognizes preferably normally processed MUC1, similarly to mAb b12 (used in MCA Roche). In serum assays, this mAb can be used either in "self sandwich" or as the capture or as the tracer.
- 2) MAb X158 prefers linear peptide epitope and is similar to reference mAb B27.29.
- 3) Mab X108 is almost identical to mAb DF3.

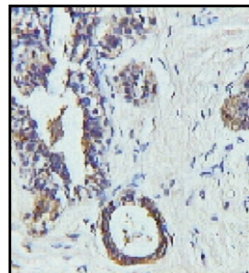
anti-MUC1 mAbs applications in IHC:



Immunostaining
with X19: breast
fibrocystic
mastopathy (++)



Immunostaining
with X108: prostate
carcinoma (++)



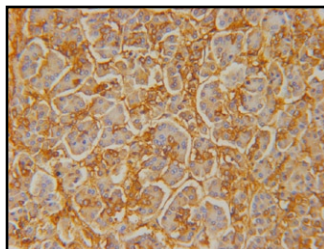
Immunostaining
with X158: breast
fibrocystic
mastopathy (++)



Murine Monoclonal Antibodies to CA19.9

Catalogue /Clone	X91
<i>Isotype</i>	IgM
<i>Immunogen</i>	Affinity pure CA19-9
<i>Remarks on purification method</i>	Ion exchange
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution frozen
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15 M NaCl, 10 mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Store frozen at -20°C
<i>Applications</i>	Immunoassay (EIA RK223 Xema-Medica), IHC
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml

anti-CA19.9 mAbs application: IHC Normal Pancreas



Murine Monoclonal Antibodies to human thyroglobulin (TG)

Catalogue / Clone	X5E6 X5F9
<i>Isotype</i>	IgG
<i>Immunogen</i>	Purified natural thyroglobulin
<i>Remarks on purification method</i>	Gel filtration
<i>Measurement of concentration. Specificity and affinity data</i>	OD280 High affinity
<i>Format</i>	Solution liquid
<i>Purity data</i>	>95% by SDS-PAGE (typical SDS-PAGE for all antibodies)
<i>Buffer</i>	0.15 M NaCl, 10 mM Tris, pH 7.5, 0.05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	X5F9 antibodies of solid phase matches with 5E6. Forming the sandwich with low interference to human auto-anti TG
<i>Presentation</i>	0.1 mg
<i>Concentration range</i>	0.1-15 mg/ml



Polyclonal antibodies and antisera

Sheep antibody to rabbit Ig (whole molecule)

Catalogue /Clone	AS301
<i>Immunogen</i>	Purified rabbit gamma-globulin
<i>Remarks on purification method</i>	Ion exchange, affinity purification on immobilized antigen
<i>Specificity and affinity data</i>	High affinity to rabbit Ig. Species non-specific, cross-reacts to other mammalian Ig
<i>Format</i>	Solution liquid
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.1% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Anti-species capture in immunoassay (EIA RK208, RK211, RK213, RK215, RK217 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml

Sheep antibody to mouse Ig (whole molecule)

Catalogue /Clone	AS302
<i>Immunogen</i>	Purified mouse IgG
<i>Remarks on purification method</i>	Ion exchange, affinity purification on immobilized antigen
<i>Specificity and affinity data</i>	High affinity
<i>Format</i>	Solution liquid
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.1% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Anti-species capture in immunoassay (EIA RK207, RK209, RK210, RK212, RK2142 Xema-Medica)
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml



Rabbit anti-human IgE epsilon-chain, human IgG adsorbed

Catalogue /Clone	AS200
<i>Immunogen</i>	Purified human myeloma IgE
<i>Remarks on purification method</i>	Affinity purification on immobilized antigen
<i>Specificity and affinity data</i>	Ion exchange, negative adsorption
<i>Format</i>	Solution liquid
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.1% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months. Store frozen at -20°C or below for longer period.
<i>Applications</i>	Immunoassay (EIA RK200 Xema-Medica), immunoblotting
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml

Rabbit antiserum to Dihydroepiandrosterone Sulphate (DHEA-S)

Catalogue /Clone	AS215
<i>Immunogen</i>	DHEA-3-hemisuccinyl-BSA
<i>Remarks on purification method</i>	Ion exchange
<i>Specificity and affinity data</i>	100% crossreactivity to DHEA
<i>Format</i>	Solution liquid prediluted
<i>Buffer</i>	50mM Tris, pH 7.2, 5% BSA, 0,05% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months.
<i>Applications</i>	Immunoassay (EIA RK215 Xema-Medica)
<i>Presentation</i>	0.1 ml
<i>Supplementary information</i>	This product is unavailable as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml



Goat antibody to carcinoembryonic antigen (CEA)

Catalogue /Clone	AS224
<i>Immunogen</i>	Purified human carcinoembryonic antigen from tumor tissue
<i>Remarks on purification method</i>	Ion exchange, affinity purification on immobilized antigen
<i>Specificity and affinity data</i>	High affinity
<i>Format</i>	Solution liquid
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.1% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months.
<i>Applications</i>	Immunoassay
<i>Presentation</i>	0.1 mg
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml

Rabbit antiserum to Laevomycetin (Chloramphenicol)

Catalogue /Clone	AS902
<i>Immunogen</i>	Purified laevomycetin-BSA
<i>Remarks on purification method</i>	Ion exchange
<i>Specificity and affinity data</i>	High affinity
<i>Format</i>	Solution liquid prediluted
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.1% sodium azide
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 10 months.
<i>Applications</i>	Immunoassay (matches labelled Laevomycetin-HRPO)
<i>Presentation</i>	0.1 ml
<i>Supplementary information</i>	This product is available as HRPO conjugate
<i>Concentration range</i>	0.1-15 mg/ml



HRPO conjugated LMW hormones

Progesterone-11-hemisuccinyl-HRPO

Catalogue	T207X
<i>Source material</i>	Highly purified hormone derivative; HRPO, RZ>3.0
<i>Remarks on synthesis method</i>	Depleted from unconjugated hormone by gel filtration
<i>Measurement of specific activity</i>	EIA titration. Titer not less than 1:5000 in direct binding EIA
<i>Format</i>	Solution liquid
<i>Buffer</i>	0.1M PBS, 0.1% Tween-20, 0,5% solubilized casein, contains dye
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 12 months.
<i>Applications</i>	Tracer in immunoassay (EIA RK207 Xema-Medica)
<i>Presentation</i>	0.1 ml

Estradiol-6-carboxymethyloxime-HRPO

Catalogue / Clone	T208X
<i>Applications</i>	Tracer in immunoassay (EIA RK208 Xema-Medica)

Testosterone-3-carboxymethyloxime-HRPO

Catalogue / Clone	T209X
<i>Applications</i>	Tracer in immunoassay (EIA RK209 Xema-Medica)



Cortisol-3-carboxymethyloxime-HRPO

Catalogue	T210X
<i>Applications</i>	Tracer in immunoassay (EIA RK210 Xema-Medica)

T3-CONH-HRPO

Catalogue /Clone	T211X
<i>Applications</i>	Tracer in immunoassay (EIA RK211 (T3 total), RK213 (T3 free) Xema-Medica)

T4-CONH-HRPO

Catalogue /Clone	T212X
<i>Applications</i>	Tracer in immunoassay (EIA RK212 (T4 total), RK2142 (T4 free) Xema-Medica)

DHEA-3-hemisuccinyl-HRPO

Catalogue /Clone	T215X
<i>Applications</i>	Tracer in immunoassay (EIA RK215 Xema-Medica)

17-OH-Progesterone-3-CMO-BSA

Catalogue /Clone	T217X
<i>Applications</i>	Tracer in immunoassay (EIA RK217 Xema-Medica)

Pls note that data for all HRPO conjugated LMW hormones described above is the same.

Streptavidin - HRPO conjugate

Catalogue	T300X
<i>Source material</i>	From <i>Streptomyces avidinii</i> . Affinity purified.
<i>Remarks on synthesis method</i>	Conjugated by periodate method. Purified by gel filtration.
<i>Measurement of specific activity</i>	EIA titration. Titer not less than 1:10000 in direct binding EIA
<i>Format</i>	Solution liquid
<i>Buffer</i>	PBS, pH 7.2-7.4, 0.02% ProClin 300
<i>Storage</i>	Refrigerate at +2 to +8°C for not longer than 12 months.
<i>Applications</i>	Tracer in immunoassay; immunoblotting and immunohistochemistry
<i>Presentation</i>	0.1 ml



Reagent sets

Reagent sets are designed for construction of solid phase EIAs in OEM format. Xema supplies the listed immunoreagents and the manufacturing protocols. Optionally, Xema supplies also the components or concentrated form of postcoating solutions, calibrator and conjugate diluents.

Cat#	Reagent set	Component #	Explanation	Sold separately as reagent	Remark
RK131	anti-TPO EIA	A131	Coating Ag	no	Unavailable as separate reagent
		C131X	Calibrator concentrate set	no	Unavailable as separate reagent
		T100X	Conjugate concentrate	XA6*	
RK132	anti-TG EIA	A132	Coating Ag	R132	
		C132X	Calibrator concentrate set	no	Unavailable as separate reagent
		T100X	Conjugate concentrate	XA6*	
RK133	anti-MPO EIA	A133	Coating Ag	R133	
		C133X	Calibrator concentrate set	no	Unavailable as separate reagent
		T100X	Conjugate concentrate	XA6*	
RK200	Total IgE EIA	A200	Coating mAb	XTE4	
		C200X	Calibrator concentrate	no	Unavailable as separate reagent
		T200X	Conjugate concentrate	AS200*	
RK2012	TSH EIA	A2012	Coating mAb	XTB1	
		C201X	Calibrator concentrate	R201C	
		T2012	Conjugate concentrate	XTB2*	
RK202	LH EIA	A202	Coating mAb	XL1	
		C202X	Calibrator concentrate	no	Unavailable as separate reagent
		T202X	Conjugate concentrate	XF1*	
RK203	FSH EIA	A203	Coating mAb	XF2	
		C203X	Calibrator concentrate	no	Unavailable as separate reagent
		T203X	Conjugate concentrate	XF1*	
RK204	GH EIA	A204	Coating mAb	XGH7	
		C204X	Calibrator concentrate	R204C	
		T204X	Conjugate concentrate	XGH6*	
RK205	HCG beta EIA	A205	Coating mAb	XH51	Unavailable as separate reagent
		C205X	Calibrator concentrate	no	Unavailable as separate reagent
		T205X	Conjugate concentrate	XF1*	Unavailable as separate reagent
RK221	PSA total EIA	A221	Coating mAb	PS2	
		C221X	Calibrator concentrate	R221C	
		T205X	Conjugate concentrate	PS6*	
RK222	CA125 EIA	A222	Coating mAb	X306	
		C221X	Calibrator concentrate	R222C	
		T222X	Conjugate concentrate	X52*	
RK223	CA199 EIA	A223	Coating mAb	X91	
		C223X	Calibrator concentrate	R223C	
		T223X	Conjugate concentrate	no	Unavailable as separate reagent
RK224	CEA EIA	A224	Coating mAb	3C6	Unavailable as separate reagent
		C224X	Calibrator concentrate	R224	
		T224X	Conjugate concentrate	3C1*	
RK225	AFP EIA	A225	Coating mAb	XA2	
		C225X	Calibrator concentrate	R225C	
		T225X	Conjugate concentrate	XFP2*	
RK226	CA15-3 EIA(MUC1)	A226	Coating mAb	X108	
		C226X	Calibrator concentrate	R226	
		T226X	Conjugate concentrate	X19*	



Cat#	Reagent set	Component #	Explanation	Sold separately as reagent	Remark
RK231	PSA free EIA	A221	Coating mAb	PS2	
		C221X	Calibrator concentrate	R221C	
		T231X	Conjugate concentrate	PS1*	
RK207	Progesterone EIA	A302	First coating Ab	AS302	
		A207	Second coating Ab	XM207	
		C207X	Calibrator concentrate	no	Unavailable as separate reagent
		T207X	Conjugate concentrate	T207X	
RK209	Testosterone EIA	S207X	Conjugate buffer additive concentrate	no	Unavailable as separate reagent
		A302	First coating Ab	AS302	
		A209	Second coating Ab	XM209	
		C209X	Calibrator concentrate	C209X	Unavailable as separate reagent
RK210	Cortisol EIA	T209X	Conjugate concentrate	T209X	
		S209X	Conjugate buffer additive concentrate	S209X	Unavailable as separate reagent
		A302	First coating Ab	AS302	
		A210	Second coating Ab	XM210	
RK211	T3 EIA	C210X	Calibrator concentrate	C210X	Unavailable as separate reagent
		T210X	Conjugate concentrate	T210X	
		S210X	Conjugate buffer additive concentrate	S210X	Unavailable as separate reagent
		A301	First coating Ab	AS301	
RK212	T4 EIA	A211	Second coating Ab	A211	Unavailable as separate reagent
		C211X	Calibrator concentrate	C211X	Unavailable as separate reagent
		T211X	Conjugate concentrate	T211X	
		S211X	Conjugate buffer additive concentrate	S211X	Unavailable as separate reagent
RK214	T4 EIA free	A302	First coating Ab	AS302	
		A212	Second coating Ab	XM212	
		C212X	Calibrator concentrate	C212X	Unavailable as separate reagent
		T212X	Conjugate concentrate	T212X	
RK215	DHEA-S EIA	S212X	Conjugate buffer additive concentrate	S212X	Unavailable as separate reagent
		AS302	First coating Ab	AS302	
		A214	Second coating Ab	XM212	
		C214X	Calibrator concentrate	C212X	Unavailable as separate reagent
RK217	17-OH-Progesterone EIA	T214X	Conjugate concentrate	T212X	Unavailable as separate reagent
		S214X	Conjugate buffer additive concentrate	S214X	Unavailable as separate reagent
		A301	First coating Ab	AS301	
		A215	Second coating Ab	AS215	
RK250	CRP ultrasensitive EIA	C215X	Calibrator concentrate	C215X	Unavailable as separate reagent
		T215X	Conjugate concentrate	T215X	
		S215X	Conjugate buffer additive concentrate	S215X	Unavailable as separate reagent
		A301	First coating Ab	AS301	
RK250	CRP ultrasensitive EIA	A217	Second coating Ab	AS217	
		C217X	Calibrator concentrate	C217X	Unavailable as separate reagent
		T217X	Conjugate concentrate	T217X	
		S217X	Conjugate buffer additive concentrate	S217X	Unavailable as separate reagent
RK250	CRP ultrasensitive EIA	A250	Coating mAb	XA250	Unavailable as separate reagent
		C250X	Calibrator concentrate	R250	
		T250X	Conjugate concentrate	XT250*	Unavailable as separate reagent



Plates

1. **N001, 96-well microplates, flat-bottom, breakable, high binding, 224/pk**
2. **N002, 96-well microplates, flat-bottom, breakable, medium binding, 224/pk**



3. **N003, adhesive tape sheets, transparent, for 96-well microplates, 200/pk**



Minimal order: for plates - 4 pks (224 x 4)
for adhesives - 5 pks (200x5)



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Catalog/Clone	Description	Qty	Comments

Comments:

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