



Dedication to cancer diagnostics?

We I.V.D.O that™

Tumor Markers
catalog

Medix Biochemica

Introduction

Tumor markers are a diverse group of proteins and other molecules that are secreted by cells, both normal and cancerous, in response to tumors and related conditions. Most tumor markers are also produced under noncancerous circumstances; however, their expression is upregulated during cancer. Determining the presence and concentration of tumor markers in bodily fluids thus supports early tumor detection and can aid treatment follow-up and efficient choice of therapy. Improved cancer management will become increasingly important in the future, as patients continue to live longer and cancers become more and more prevalent.

Various tumor markers are currently used in clinical practice to monitor treatment success, characterize disease, as well as to support cancer diagnosis and detection. An elevated tumor marker level can also result from benign conditions. On the other hand, cancer can be present in the absence of typical tumor markers. In practice, tumor marker immunoassays are therefore often combined with other tests to ensure reliable results.

For example, immunoassays for human prostate-specific antigen (PSA) are commonly used to evaluate the pathological grade of prostate cancer and to aid early prostate cancer detection. As PSA overexpression is also related to some noncancerous conditions, measurements for both the total PSA concentration and the free form of PSA are often combined to improve cancer-specificity. Another example is carcinoembryonic antigen (CEA). Testing for this marker can be a useful tool in predicting the therapeutic effect, progression, and prognosis of several cancers.

Medix Biochemica has more than three decades of experience in producing premium-quality monoclonal antibodies for tumor marker detection as well extensive experience with purified cancer antigens for use in QC materials. Our company's optimized, industrial-scale production methods, certified batch-to-batch consistency, and expert customer service have made Medix Biochemica one of the most important antibody suppliers for the IVD community.



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Product	Concentration mg/mL *	Catalog number
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Alpha-fetoprotein (AFP)

is a major plasma protein produced by the fetus. AFP is measured in pregnancy as a screening test for a subset of developmental abnormalities. It is also used as a biomarker to detect a subset of tumors.

MONOCLONAL ANTIBODIES			
AFP	5107	1	100014
	5108	5	100015

Calcitonin

is a peptide hormone secreted by the thyroid gland. Calcitonin concentrations are increased in patients with medullary thyroid carcinoma (MTC) and can be used to diagnose and monitor the disease.

MONOCLONAL ANTIBODIES			
Calcitonin	4004	5	100563
	4005	5	100564
	4050	>1	700019
	4051	>1	700020

Cancer Antigen 15-3 (CA15-3)

is identified through the use of two monoclonal antibodies, one specific for the MUC-1 protein core and another specific for a carbohydrate epitope on the MUC-1 protein. CA15-3 is a widely used serum marker for breast cancer monitoring.

Antibody 4404 recognizes the MUC-1 core protein of CA15-3.

MONOCLONAL ANTIBODIES			
CA15-3	4404	5	100584

Cancer Antigen 125 (CA125)

is a peptide epitope on the mucin glycoprotein MUC16. CA125 is the most widely used serum biomarker to monitor epithelial ovarian cancer. It is also used for the differential diagnosis of pelvic masses.

MONOCLONAL ANTIBODIES			
CA125	4601	5	100598
	4602	5	100628

Product	Concentration mg/mL *	Catalog number
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Cancer Antigen 19-9 (CA19-9)

is a tumor biomarker also called Sialyl Lewis A. Serum level measurements of CA19-9 are widely used in pancreatic cancer patients for monitoring their response to cancer treatments.

MONOCLONAL ANTIBODY			
CA19-9	4701	5	100609

Carcinoembryonic Antigen (CEA)

is normally produced during fetal development. It has been used as a tumor marker for colorectal cancer and several carcinomas.

MONOCLONAL ANTIBODIES			
CEA	5905	5	100869
	5909	5	100428
	5910	5	100047
	5911	1	100048
	5912	1	100049

hCG

Chorionic Gonadotropin (hCG) is a glycoprotein hormone produced during pregnancy and commonly utilized for early pregnancy testing. Testing for hCG may also be done when diagnosing or monitoring some tumors.

MONOCLONAL ANTIBODIES			
hCG beta	5004	1	100004
	5006	5	100005
	5008	5	100006
	5011	1	100009
	5014	5	100011
	5016	5	100013
hCG complex	5009	5	100008
hCG free beta	5012	5	100368

CYFRA 21-1

is a fragment of Cytokeratin 19. Serum CYFRA 21-1 has been used as a tumor marker, especially in non-small cell lung cancer.

MONOCLONAL ANTIBODIES			
CYFRA 21-1	1602	5	100220
	1603	5	100221
	1604	5	100222
	1605	5	100223

Product	Concentration mg/mL *	Catalog number
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Ferritin

binds and stores iron, preventing iron deficiency (anemia) and iron overload (hemochromatosis). The amount of ferritin in the serum is measured in relation to some chronic diseases and anemia.

MONOCLONAL ANTIBODIES			
Ferritin	8803	5	100111
	8806	5	100112

Gastrin-17

Gastrin is a peptide hormone released by G cells in the stomach, duodenum, and the pancreas. Gastrin-17 is one of the biologically active forms of gastrin. Levels of Gastrin-17 in the blood is measured to evaluate recurrent peptic ulcers, gastrinomas, and other serious abdominal symptoms.

MONOCLONAL ANTIBODY			
Gastrin-17	TBD	TBD	TBD <small>UPCOMING</small>

GDF-15

Growth differentiation factor 15 (GDF-15) is a stress responsive cytokine having elevated expression levels during tissue injury and inflammatory states. Increased GDF-15 levels are associated with cardiovascular diseases such as heart failure and atherosclerosis, and also with chronic kidney disease and cancer.

MONOCLONAL ANTIBODY			
GDF-15	4901	5	100688
	4902	5	100658
	4903	5	100836
	4904	5	100837
	4905	5	100838

Product	Concentration mg/mL *	Catalog number
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Hemoglobin (Hb)

is the iron-containing oxygen-transport metalloprotein in red blood cells. Hemoglobin carries oxygen from the lungs to the rest of the body. Deviation from normal values usually indicates abnormalities, such as anemia.

MONOCLONAL ANTIBODIES			
Hb	7202	5	100079
	7204	5	100080

Human Epididymis Protein 4 (HE4)

is also known as WAP four-disulfide core domain protein 2, and is a 124 amino acid long protease inhibitor. Serum HE4 is often measured together with CA125 to monitor progression of epithelial ovarian cancer after treatment.

MONOCLONAL ANTIBODIES			
HE4	4501	5	100589
	4502	5	100592
	4503	5	100608
	4505	5	100593

Inhibin

Inhibin alpha binds to either beta A or beta B subunit, to form inhibin A, or inhibin B, respectively. Inhibin A tests can be used in the diagnostics of Down syndrome. Inhibin B is a marker of male infertility.

MONOCLONAL ANTIBODIES			
Inhibin alpha	9401	5	100711
Inhibin beta A	9504	5	100709

Inhibin beta A can form dimers with itself, with inhibin alpha, or inhibin beta B. The dimerization product with inhibin alpha subunit is called inhibin A. Assessment of inhibin A concentration is used in prenatal screening for Down syndrome.

Product	Concentration mg/mL *	Catalog number
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Neuron-Specific Enolase (NSE)

has been detected in patients with certain tumors, namely: neuroblastoma, small cell lung cancer, medullary thyroid cancer, carcinoid tumors, pancreatic endocrine tumors, and melanoma.

MONOCLONAL ANTIBODIES			
NSE	9601	5	100388
	9602	5	100408
RECOMBINANT ANTIGEN			
NSE antigen	100 µg		610150

Pepsinogen (PG I & II)

is the pro-form of pepsin. It is produced in the stomach and secreted into the gastric lumen, but a small amount is also released into the blood. Alterations in the serum pepsinogen concentration may indicate gastric abnormalities.

MONOCLONAL ANTIBODIES			
PG I	8003	5	100120
	8009	1	100093
	8015	5	100143
	8016	5	100868
PG II	8101	5	100097
	8102	1	100098
	8103	5	100121
RECOMBINANT ANTIGEN			
PG I antigen	100 µg		610000
PG II antigen	100 µg		610001

PIVKA-II

Protein induced by vitamin K absence or antagonist-II (PIVKA-II), also known as des-γ-carboxy prothrombin (DCP), is an abnormal form of prothrombin. In patients with hepatocellular carcinoma (HCC), γ-carboxylation of prothrombin is impaired leading to formation of PIVKA-II, which can be used to assess the surveillance, diagnosis and management of HCC.

MONOCLONAL ANTIBODIES			
PIVKA-II	12102	5	100871
	12103	5	100872
	12106	5	100875

Product	Concentration mg/mL *	Catalog number
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Prostate-Specific Antigen (PSA)

is a protein produced by the cells of the prostate gland. PSA is often elevated in the presence of prostate cancer and in other prostate disorders. Free PSA is a form of PSA that does not become attached to other blood proteins. Decreased levels of free PSA may indicate prostate cancer.

MONOCLONAL ANTIBODIES			
PSA	8301	5	100102
	8311	1	100103
	8312	5	100139
Free PSA	8313	5	100488

S100B

belongs to the family of dimeric calcium-binding S100 proteins. S100B is a biomarker for traumatic brain injury.

MONOCLONAL ANTIBODY			
S100B	11401	5	100778
	11402	5	100779
	11404	5	100781
RECOMBINANT ANTIGEN			
S100B antigen		50 µg	710014
		500 µg	710045
		1000 µg	710044

Squamous Cell Carcinoma (SCC)

Squamous cell carcinoma (SCC) antigen is a biomarker of squamous cell carcinomas found in the lung, uterine cervix, esophagus, head, neck, anal canal, and skin.

MONOCLONAL ANTIBODY			
SCC	11801	5	100876
	11802	5	100877
	11803	5	100878
	11804	5	100879

Product	Source	Purity	Form	Catalog number
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Acid Phosphatase (ACP)

ENZYMES

Prostatic ACP/PAP	Human Semen	High Purity	Lyophilized	475-31
		High Purity	Liquid	475-32
		Purified	Lyophilized	475-30
Non-Prostatic ACP	Sweet Potato	Purified	Lyophilized	475-20
			Liquid	475-41
			Liquid	475-45

Alpha-Fetoprotein (AFP)

NATIVE ANTIGENS

AFP	Human Cord Serum	High Purity	Liquid	105-11
			Lyophilized	105-12

Beta-2 Microglobulin (B2M)

NATIVE ANTIGENS

B2M	Human Urine	High Purity	Liquid	126-12
			Lyophilized	126-11

RECOMBINANT ANTIGEN

B2M	Recombinant	High Purity	Lyophilized	126-14
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POLYCLONAL ANTIBODY

B2M	Goat anti-Human	High Purity	Liquid	GB2-80A
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Cancer Antigen 125 (CA125)

NATIVE ANTIGEN

CA125	Human Ascites Fluid	High Purity	Liquid	151-25
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Cancer Antigen 15-3 (CA15-3)

NATIVE ANTIGEN

CA15-3	Human Ascites Fluid	Purified	Liquid	151-53
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Cancer Antigen 19-9 (CA19-9)

NATIVE ANTIGEN

CA19-9	Human Liver Metastases	Purified	Liquid	151-99
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Product	Source	Purity	Form	Catalog number
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Cancer Antigen 242 (CA242)

ANTIGEN

CA242	Human Cell Culture	Purified	Liquid	151-42
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Cancer Antigen 50 (CA50)

ANTIGEN

CA50	Human Cell Culture	Purified	Liquid	151-50
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Cancer Antigen 72-4 (CA72-4)

NATIVE ANTIGEN

CA72-4	Human Liver Metastatic Carcinoma	High Purity	Liquid	151-24
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Carcinoembryonic Antigen (CEA)

NATIVE ANTIGEN

CEA	Human Liver Metastatic Carcinoma	High Purity	Liquid	151-10
			Lyophilized	151-09

POLYCLONAL ANTIBODY

CEA	Goat anti-Human	High Purity	Liquid	151-12
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Chorionic Gonadotropin (HCG)

NATIVE ANTIGENS

hCG	Human Pregnancy Urine	High Purity	Lyophilized	189-11
		Purified	Lyophilized	189-10
beta-hCG	Human Pregnancy Urine	High Purity	Lyophilized	325-11

CYFRA 21-1

ANTIGEN

CYFRA 21-1	Human Cell Culture	High Purity	Liquid	192-20
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Epididymis Protein 4 (HE4)

ANTIGEN

HE4	Recombinant	Purified	Liquid	345-50
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Product	Source	Purity	Form	Catalog number
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Ferritin

NATIVE ANTIGENS

Ferritin	Human Liver	High Purity	Liquid	270-40
	Human Spleen	High Purity	Liquid	270-50
	Human Placenta	High Purity	Liquid	270-60

POLYCLONAL ANTIBODY

Ferritin	Rabbit anti-Human	High Purity	Liquid	RF-80A
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Fibrinogen

NATIVE ANTIGEN

Fibrinogen	Human Plasma	High Purity	Lyophilized	271-17
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Hemoglobin

NATIVE ANTIGEN

Hb	Human Erythrocytes	High Purity	Lyophilized	338-10
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Neuron Specific Enolase (NSE)

NATIVE ANTIGEN

NSE	Human Brain	High Purity	Liquid	430-11
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Pepsinogen

NATIVE ANTIGENS

PG I	Human Gastric Mucosa	High Purity	Lyophilized	440-50
PG II	Human Gastric Mucosa	High Purity	Lyophilized	440-52

Placental Alkaline Phosphatase (PLAP)

ENZYME

PLAP	Human Placenta	Purified	Lyophilized	485-10
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Prostate Specific Antigen (PSA)

NATIVE ANTIGENS

PSA	Human Semen	High Purity	Liquid	497-11
			Lyophilized	497-22

Product	Source	Purity	Form	Catalog number
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PSA-ACT Complex

NATIVE ANTIGEN

PSA-ACT Complex	Human Semen & Serum	High Purity	Liquid	498-11
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Thyroglobulin (Tg)

NATIVE ANTIGEN

Tg	Human Thyroid Gland	High Purity	Lyophilized	528-11
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Product	Source	Applications	Matched pairs	Catalog number
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Gastrin 17 (G-17)

MONOCLONAL ANTIBODY

Gastrin 17 (G-17) Antibody	Mouse	ELISA, Lateral Flow, CLIA, IFA	HM775 or HM776 (detection)	HM774
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Hemoglobin (Hb)

MONOCLONAL ANTIBODY

Hemoglobin (Hb) Antibody	Mouse	Lateral Flow	HM060, HM754 or HM753 (capture)	HM061
Hemoglobin (Hb) Antibody	Mouse	ELISA, Lateral Flow	HM257 (detection)	HM258

Pepsinogen II (PGII)

MONOCLONAL ANTIBODY

Pepsinogen II (PGII) Antibody	Mouse	ELISA, Lateral Flow	HM323 (capture)	HM324
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Medix Biochemica Group

Medix Biochemica is a global, market-leading supplier of critical raw materials to the *in vitro* diagnostics (IVD) industry. Our mission is to enable IVD customers to deliver accurate results to billions of patients worldwide. By working in partnership with Medix Biochemica, IVD manufacturers can reduce their time to market through our industry-leading expertise which increases efficiencies and builds quality into their tests. We achieve this through our deep scientific know-how combined with the broadest and most relevant raw material portfolio and our relentless focus on quality.

Medix Biochemica Group employs more than 260 professionals worldwide. With headquarters in Finland, we serve our worldwide customers through our local teams in the US, Europe, and Asia. www.medixbiochemica.com

Close to our global customers

We serve our global customers from our sites in Finland, the USA, France, Germany and China.



The first-choice partner

- Focusing on IVD manufacturers' needs
- Capability to support customers across the globe
- Focus on new product development based on customer needs
- Efficient and scalable manufacturing capabilities



Widest portfolio

- Monoclonal antibodies
- Antigens for immunoassay materials
- Molecular diagnostics reagents
- Enzymes for clinical chemistry controls
- Biochemicals and biologicals



Highest quality

- ISO 13485 & FDA QSR compliance
- Batch to batch consistency
- Scalable production capability from milligrams to kilograms

Our values



We care

We put the customer first; we care for the people and the world around us.



We dare

We are ambitious and innovative; we take risks and dare to win with our customers.



We deliver

We commit to our customers and keep our promises.

Get in touch

Orders:

orders@medixbiochemica.com

Sales inquiries:

sales@medixbiochemica.com

Molecular Diagnostics:

MDx@medixbiochemica.com

Technical support:

techsupport@medixbiochemica.com

General inquiries:

medix@medixbiochemica.com

Medix Biochemica

Ordering and product information

medixbiochemica.com

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