Dedication to heart health?

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Cardiovascular Catalog

Medix Biochemica

Introduction

Cardiovascular diseases (CVD) are a group of disorders affecting the heart and blood vessels. Accounting for an estimated one third of all deaths worldwide, CVDs are the number one global cause of mortality. Rapid diagnostics as well as reliable identification and monitoring of highrisk individuals is vital for lowering risk of CVD-related death and disability.

Cardiac biomarkers are a varied group of molecules whose increased concentrations relate to the presence and the risk of future cardiovascular events. There is a growing need for accurate biomarkers for diagnostics and risk stratification, as efficient treatment and prevention of CVD rely on early detection of patients with, or at risk of, these diseases.

Several cardiac markers are currently used in clinical practice to support diagnosis, risk assessment, and treatment follow-up related to different CVD pathophysiological processes. For example, cardiac muscle damage causes cardiac troponin (cTn) to be released into the bloodstream by myocardial cells. Elevated serum levels of cTn thus indicate heart injury, and immunoassays for cTn form the cornerstone of diagnosing acute myocardial infarction (AMI). Current cTn assay methods allow AMI to be ruled out as early as one hour after onset of symptoms. D-dimer concentrations correlate with the thrombolytic activity and thus provide a useful tool for excluding pulmonary embolism and deep vein thrombosis. Low-density and high-density lipoproteins are also routinely tested to assess risk for developing CVD.

Medix Biochemica provides a wide selection of premium-quality monoclonal antibodies, native antigens and lipoprotein concentrates for cardiac marker detection. Our optimized, industrial-scale production methods, certified batch-to-batch consistency, and expert customer service have made Medix Biochemica one of the most important raw material suppliers for the in vitro diagnostic (IVD) community.

Products

Medix Biochemica has defined a set of recommended products to help you choose from our wide offering. These recommedations are based on performance, popularity and availability in bulk volumes.

Recommended products highlighted in bold

Antibodies Antigens

Alpha-2-Antiplasmin (A2AP)

Alpha 2-antiplasmin is a serine protease inhibitor responsible for inactivating plasmin. Plasmin is an important enzyme that participates in fibrinolysis and degradation of various other proteins.

Product Type	Catalog #	Description	Source/Method
Native antigen	**107-50**	**A2AP, purity ≥ 95%, lyophilized**	**Human plasma**

Angiotensin-Converting Enzyme 2 (ACE2)

Angiotensin-converting enzyme 2 (ACE2) plays a crucial role in the renin-angiotensin system, regulating blood pressure and cardiovascular function. It is also the primary receptor for the SARS-CoV-2 virus, facilitating viral entry into host cells.

Product Type	Catalog #	Description	Source/Method
Recombinant antigen	LA649	ACE2, purity > 90%	CHO cells
	LA650	ACE2, purity > 90%	CHO cells

Angiotensinogen

Angiotensin is a peptide hormone that causes vasoconstriction and an increase in blood pressure. It is part of the renin–angiotensin system, which regulates blood pressure.

Product Type	Catalog #	Description	Source/Method
Native antigen	123-03	Angiotensinogen, purity >95 %, lyophilized	Human plasma

Antithrombin III (ATIII/AT3)

Antithrombin is also termed antithrombin III (AT III). Antithrombin is a small glycoprotein that inactivates several enzymes of the coagulation system.

Product Type	Catalog #	Description	Source/Method
Native antigen	123-10	Antithrombin III (ATIII/AT3), purity ≥ 95%, lyophilized	Human plasma

Apolipoprotein A1 (ApoA1)

Apolipoprotein A1 (ApoA1) is a major component of high-density lipoprotein (HDL) and helps clear cholesterol from arteries.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100263**	**Anti-h ApoA1 2001**	**In vitro**
	100264	**Anti-h ApoA1 2002**	**In vitro**
Polyclonal antibody	JP067	ApoA1 antibody	In vivo
Native antigen	124-10	ApoA1, purity ≥ 96%	Human serum
	125-16	ApoA1, purity ≥ 99%	Human plasma
	LA161	ApoA1, purity ≥ 95%	Human plasma

Apolipoprotein A2 (ApoA2)

Apolipoprotein A2 (ApoA2) protein is found in plasma as a monomer, homodimer, or heterodimer with apolipoprotein D. ApoA2 regulates many steps in HDL metabolism.

Product Type	Catalog #	Description	Source/Method
Native antigen	125-17	ApoA2, purity ≥ 99%	Human plasma
	LA162	ApoA2, purity ≥ 95%	Human plasma

Apolipoprotein B (ApoB)

Apolipoprotein B (ApoB) is the primary apolipoprotein of low-density lipoprotein (LDL), which is responsible for carrying cholesterol to tissues. High levels of ApoB can lead to plaques that cause atherosclerosis.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100261**	**Anti-h ApoB 2101**	**In vitro**
Polyclonal antibody	JP068	ApoB antibody	In vivo
Native antigen	**125-18**	**ApoB-100, purity ≥ 98%**	**Human plasma**
	125-25	ApoB, purity ≥ 80%	Human plasma
	LA191	ApoB, purity ≥ 95%, lyophilized	Human plasma

Apolipoprotein C1 (ApoC1)

Apolipoprotein C1 (ApoC1) is a member of the apolipoprotein family that acts not only to transport lipids and stabilize the lipoprotein structure but also to regulate pathological processes including diabetes, Alzheimer's and inflammation.

Product Type	Catalog #	Description	Source/Method
Native antigen	125-19	ApoC1, purity ≥ 98%	Human plasma
	LA246	ApoC2, purity > 95%, lyophilized	Human plasma

Apolipoprotein C2 (ApoC2)

Apolipoprotein C2 (ApoC2) is a small exchangeable apolipoprotein found on triglyceride-rich lipoproteins (TRL) such as chylomicrons (CM) and very low-density lipoproteins (VLDL), as well as on high-density lipoproteins (HDL).

Product Type	Catalog #	Description	Source/Method
Polyclonal antibody	JP151	ApoC2 antibody	In vivo
Native antigen	125-20	ApoC2, purity ≥ 98%	Human plasma
	LA247	ApoC2, purity > 95%, lyophilized	Human plasma

Apolipoprotein C3 (ApoC3)

Apolipoprotein C3 (ApoC3) plays a role in triglyceride metabolism and may regulate several pathways beyond lipid metabolism, influencing the risk of cardiovascular, metabolic, and neurological diseases.

Product Type	Catalog #	Description	Source/Method
Polyclonal antibody	JP184	ApoC2 antibody	In vivo
Native antigen	125-21	ApoC3, purity > 98%	Human plasma
	LA248	ApoC3, purity ≥ 95%, lyophilized	Human plasma

Apolipoprotein E (ApoE)

Apolipoprotein E (ApoE) is a protein involved in the metabolism of fats in mammals, playing a crucial role in lipid transport and cholesterol homeostasis.

Product Type	Catalog #	Description	Source/Method
Native antigen	125-29	ApoE, purity ≥ 95%	Human plasma
	125-30	ApoE, purity ≥ 98%	Human plasma
	LA163	ApoE, purity ≥ 95%	Human plasma

Apolipoprotein Lp(a) [ApoLp(a)]

Apolipoprotein(a) [ApoLp(a)] is the protein component of Lp(a), which is a complex of LDL particles and ApoLp(a). This protein is involved in lipid metabolism and is a significant independent risk factor for atherosclerotic cardiovascular disease (CVD) and calcific valvular aortic stenosis.

Product Type	Catalog #	Description	Source/Method
Polyclonal antibody	JP078	ApoLp(a) antibody	In vivo

Brain Natriuretic Peptide (BNP)

B-type natriuretic peptide (BNP) is a cardiac hormone released by the heart in response to ventricular myocardium wall stress. In patients with heart failure, BNP levels are elevated easures of cardiac function and diagnosis of heart failure.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100970**	**Anti-h BNP 11904**	**In vitro**
	100971	Anti-h BNP 11906	In vitro
	100973	**Anti-h BNP 11908**	**In vitro**
	HM816	BNP antibody	In vivo
	HM817	BNP antibody	In vivo
	HM818	BNP antibody	In vivo
	HM819	BNP antibody	In vivo
Synthetic antigen	**129-10**	**BNP-32, purity ≥95%, lyophilized**	**Synthetic**

Cholesterol

Cholesterol is a waxy, fat-like substance found in all human cells. The body needs cholesterol to make hormones, vitamin D, and substances that help digest food.

Product Type	Catalog #	Description	Source/Method
Native antigen	**185-10**	**Cholesterol concentrate**	**Bovine serum**
	185-13	Cholesterol concentrate	Bovine serum
	185-20	Cholesterol concentrate (BCCL, LDL/HDL)	Bovine serum
	360-35	Cholesterol concentrate (LDL/HDL Blend)	Human plasma

Chylomicrons (ULDL)

Chylomicrons or ultra low-density lipoproteins, are lipoprotein particles that consist of triglycerides, phospholipids, cholesterol, and proteins. They transport dietary lipids from the intestines to other locations in the body.

Product Type	Catalog #	Description	Source/Method
Native antigen	194-14	Chylomicrons (ULDL)	Human plasma

Copeptin

Copeptin is a acid glycopeptide. It has been suggested as a biomarker in diagnosis and prognosis of several diseases, such as acute myocardial infarction, heart failure, hyponatremia, and sepsis.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100638**	**Anti-h copeptin 4801**	**In vitro**
	100639	**Anti-h copeptin 4802**	**In vitro**
	100648	**Anti-h copeptin 4806**	**In vitro**
	100649	**Anti-h copeptin 4804**	**In vitro**

C-Reactive Protein (CRP)

C-reactive protein (CRP) is a protein found in the blood, and it raises in response to inflammation. CRP values are useful in determining disease progress or the effectiveness of treatments. C-reactive protein can be an indicator of how at risk you are for developing cardiovascular problems. This is because the development of atherosclerosisis associated with inflammation within the vessel walls.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100058**	**Anti-h CRP 6404 (2 mg/ml)**	**In vitro**
		100061	**Anti-h CRP 6404 (6 mg/ml)**	**In vitro**
		100145	**Anti-h CRP 6402**	**In vitro**
		100146	**Anti-h CRP 6403**	**In vitro**
		100147	Anti-h CRP 6407	In vitro
		100358	Anti-h CRP 6405	In vitro
		HM122	CRP antibody	In vivo
		HM573	CRP antibody	In vivo
		HM574	CRP antibody	In vivo
		HM751	CRP antibody	In vivo
		HM752	CRP antibody	In vivo
Polyclonal antibody		GCRP-80A	CRP antibody	In vivo
Recombinant antigen		**140-11R**	**CRP, purity ≥ 99%**	**E. coli**
Native antigen		**140-11**	**CRP, purity ≥ 99%**	**Human pleural fluid**

Creatine Kinase (CK)

Creatine kinase (CK) is found in cardiac muscle, skeletal muscle, and brain. Total CK can be separated into three major isoenzymes: CK-BB, found predominantly in brain and lung; CK-MM, found in skeletal muscle; and CK-MB, found predominantly in heart muscle.

Product Type		Catalog #	Description	Source/Method
Native antigen		190-10	CK, lyophilized	Bovine heart
		191-45	CK, lyophilized	Porcine heart
		191-46	CK, lyophilized	Porcine heart

Creatine Kinase (CK-BB, CK-MB, CK-MM)

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100086**	**Anti-h CK-MB 7502**	**In vitro**
		100630	**Anti-h CK-MB 7501**	**In vitro**
		HM1128	CK-MB antibody	In vivo
		HM144	CK-MB antibody	In vivo
		HM575	CK-MB antibody	In vivo
		HM576	CK-MB antibody	In vivo
		HM848	CK-MB antibody	In vivo
		HM849	CK-MB antibody	In vivo
Polyclonal antibody		190-46	CK-MM antibody	In vivo
Recombinant antigen		LA374	CK-BB, purity ≥ 95%	Human fluids
Native antigen		191-24	CK-BB, lyophilized	Porcine brain
Recombinant antigen		190-24-R1	CK-MB, purity ≥ 95%	Yeast
		190-24-R2	CK-MB	Yeast
		LA445	CK-MB, purity ≥95%	
Native antigen		**190-24**	**CK-MB**	**Human heart**
		190-24A	**CK-MB, purity ≥ 99%**	**Human heart**
Recombinant antigen		LA373	CK-MM, purity ≥95%	
Native antigen		190-29	CK-MM, lyophilized	Human skeletal muscle

Cystatin C

Cystatin C is an emerging renal biomarker. It is used for the diagnosis of chronic kidney disease. Cystatin C has also been associated with an increased risk of cardiovascular disease and heart failure.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100659**	**Anti-h cystatin C 10005**	**In vitro**
		100690	**Anti-h cystatin C 10002**	**In vitro**
		100702	**Anti-h cystatin C 10001**	**In vitro**
		HM367	Cystatin C antibody	In vivo
		HM368	Cystatin C antibody	In vivo
Polyclonal antibody		JP089	Cystatin C antibody	In vivo
Recombinant antigen		**610100**	**Cystatin C, 100 µg, lyophilized**	**E. coli**
Native anigen		194-51	Cystatin C, purity ≥ 96%, lyophilized	Human urine

D-Dimer (DD)

D-dimer (DD) is a fibrin degradation product created during fibrinolysis when plasmin degrades the fibrin clot. D-dimer test can be used to exclude deep venous thrombosis (DVT), pulmonary embolism (PE) or disseminated intravascular coagulation (DIC). D-dimer is also valuable for monitoring patients during and after anticoagulant treatment for recurrent DVT.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		100204	Anti-h D-dimer 1401	In vitro
		100205	Anti-h D-dimer 1402	In vitro
		100228	Anti-h D-dimer 1403	In vitro
		100479	**Anti-h D-dimer 1404**	**In vitro**
		100480	**Anti-h D-dimer 1405**	**In vitro**
		100482	Anti-h D-dimer 1407	In vitro
		100799	Anti-h D-dimer 1408	In vitro
		100800	Anti-h D-dimer 1409	In vitro
		HM1408	D-dimer antibody	In vitro
		HM1409	D-dimer antibody	In vitro
		HM354	D-dimer antibody	In vivo
		HM355	D-dimer antibody	In vivo
		HM694	D-dimer antibody	In vivo
		HM695	D-dimer antibody	In vivo
		HM812	D-dimer antibody	In vivo
		HM867	D-dimer antibody	In vivo
		HM868	D-dimer antibody	In vivo
Native antigen		**200-09**	**D-dimer, control grade, purity ≥ 50%**	**Human plasma**
		200-12	**D-dimer, purity ≥ 80%**	**Human plasma**
		200-13	**D-dimer, purity ≥ 95%**	**Human plasma**
		LA482	D-dimer, purity ≥ 90%	Human plasma

Digoxin

Digoxin is used to treat congestive heart failure, usually in combination with a diuretic (water pill) and an angiotensin-converting enzyme (ACE) inhibitor. It is also used to treat a heart rhythm problem called atrial fibrillation.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**HM1210**	**Digoxin antibody**	**In vivo**
		HM1211	**Digoxin antibody**	**In vivo**
		HM1212	**Digoxin antibody**	**In vivo**
		HM1213	**Digoxin antibody**	**In vivo**
		HM1214	**Digoxin antibody**	**In vivo**

Fatty Acid Binding Protein 3 (FABP3)

The fatty-acid binding proteins (FABPs) are a family of carrier proteins for fatty acids and other lipophilic substances present abundantly in the myocardium. When the myocardium is injured, as in the case of myocardial infarction, H-FABP are released into the circulation and H-FABP can be used as a biochemical diagnostic marker in the early phase of acute myocardial infarction (AMI).

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100292**	**Anti-h FABP3 2302**	**In vitro**
		100293	**Anti-h FABP3 2303**	**In vitro**
		100294	**Anti-h FABP3 2304**	**In vitro**
		HM565	H-FABP antibody	In vitro
		HM566	H-FABP antibody	In vitro
Recombinant antigen		**610043**	**FABP3, 100 µg, lyophilized**	**E. coli**
		LA370	H-FABP, purity ≥ 95%	E. coli
Native antigen		276-06	H-FABP, purity ≥ 98%	Human liver
		276-10	**FABP3, purity ≥ 98%**	**Human heart**
		276-12	**FABP3, purity ≥ 98%, lyophilized**	**Human heart**
		276-18	FABP3, purity ≥ 95%	Porcine heart
		LA153	FABP3, purity ≥ 98%	Human cardiac tissue

Galectin-3

Galectin-3 is a soluble lectin that binds sugars found on several proteins. It is a pro-inflammatory and pro-fibriotic marker involved in fibrosis of various organs, including heart, vessels, lungs, liver, and kidneys. It is upregulated in chronic inflammatory diseases, heart failure, hypertension and atherosclerotic lesions, and it is involved in several pathophysiological processes including cancer, liver cirrhosis, and diabetes mellitus.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100730**	**Anti-h galectin-3 10301**	**In vitro**
		100731	**Anti-h galectin-3 10302**	**In vitro**
		100732	**Anti-h galectin-3 10303**	**In vitro**
		100733	**Anti-h galectin-3 10304**	**In vitro**
		100734	**Anti-h galectin-3 10305**	**In vitro**
		855.610.005	Galectin-3 antibody B-S43, azide free	In vivo
		855.613.020	Galectin-3 antibody B-S43, unconjugated	In vivo
		855.620.005	Galectin-3 antibody B-E53, azide free	In vivo
Recombinant antigen		280-15	Galectin-3, purity ≥ 90%	E. coli
		610144	**Galectin-3, 100 µg**	**E. coli**

Growth Differentiation Factor 15 (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.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100658**	**Anti-h GDF-15 4902**	**In vitro**
	100688	**Anti-h GDF-15 4901**	**In vitro**
	100836	**Anti-h GDF-15 4903**	**In vitro**
	100837	**Anti-h GDF-15 4904**	**In vitro**
	100838	Anti-h GDF-15 4905	In vitro

HDL Cholesterol

HDL (high-density lipoprotein) cholesterol, "good" cholesterol, absorbs cholesterol in the blood and carries it back to the liver. The liver then flushes it from the body. High levels of HDL cholesterol can lower your risk for heart disease and stroke.

Product Type	Catalog #	Description	Source/Method
Native antigen	361-10	HDL	Human plasma
	361-12	HDL, sterile filtered	Human plasma

LDL Cholesterol

LDL (low-density lipoprotein) cholesterol, "bad" cholesterol, makes up most of your body's cholesterol. High levels of LDL cholesterol raise your risk for heart disease and stroke.

Product Type	Catalog #	Description	Source/Method
Native antigen	360-10	LDL	Human serum
	360-12	**LDL, 0.2 micron filtered**	**Human plasma**
	360-13	**LDL, low triglycerides**	**Human plasma**
	360-16	**LDL, preservative added**	**Human plasma**
	360-30	LDL, purity ≥ 95%	Human plasma
	360-31	LDL, oxidized, purity ≥ 95%	Human plasma

Lipoprotein(a) [Lp(a)]

Lipoprotein (a) [Lp (a)] is one type of LDL or low-density lipoprotein. Publications have shown that high levels of lipoprotein (a) in humans is related to a higher risk of heart and blood vessel disease.

Product Type	Catalog #	Description	Source/Method
Polyclonal antibody	400-45	Lp (a) antibody	In vivo
Native antigen	**LA447**	**Lp (a), purity ≥ 90%**	**Human serum**

Lipoprotein-Associated Phospholipase A2 (Lp-PLA2)

Lipoprotein-associated phospholipase A2 (Lp-PLA2) is an enzyme that breaks down oxidized low-density lipoprotein in the vascular wall. Higher levels of Lp-PLA2 activity are thought to promote atherosclerotic plaque formation.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	100751	Anti-h Lp-PLA2 11202	In vitro
	100753	**Anti-h Lp-PLA2 11207**	**In vitro**
	100755	**Anti-h Lp-PLA2 11209**	**In vitro**
	100818	Anti-h Lp-PLA2 11205	In vitro
	HM820	Lp-PLA2 antibody	In vivo
	HM821	Lp-PLA2 antibody	In vivo
Recombinant antigen	**400-60**	**Lp-PLA2, purity ≥ 90%**	**E. coli**

Myeloperoxidase (MPO)

Myeloperoxidase (MPO) is a peroxidase enzyme, which is most abundantly expressed in neutrophils. It produces hypohalous acids to carry out their antimicrobial activity. Elevated MPO levels have been shown to be a significant independent risk factor for a major adverse cardiac event (MACE).

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100266**	**Anti-h MPO 1701**	**In vitro**
	100267	**Anti-h MPO 1702**	**In vitro**
	100268	**Anti-h MPO 1703**	**In vitro**
Native antigen	**426-10**	**MPO, purity ≥ 96%**	**Human neutrophils**
	426-10LV	MPO, purity ≥ 96%, lyophilized	Human neutrophils
	LA179	MPO, purity ≥ 95%, lyophilized	Human neutrophils

Myoglobin

Myoglobin is a single-chain globular protein, containing a heme prosthetic group in the center around which the remaining apoprotein folds. It is the primary oxygen-carrying pigment of muscle tissues. Myoglobin is a sensitive marker for muscle injury.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100078**	**Anti-h myoglobin 7005**	**In vitro**
		100354	**Anti-h myoglobin 7004**	**In vitro**
		100378	**Anti-h myoglobin 7001**	**In vitro**
		HM212	Myoglobin antibody	In vivo
		HM213	Myoglobin antibody	In vivo
		HM687	Myoglobin antibody	In vivo
		HM688	Myoglobin antibody	In vivo
		HM704	Myoglobin antibody	In vivo
		HM705	Myoglobin antibody	In vivo
Recombinant antigen		610030	Myoglobin, 100 µg, lyophilized	E. coli
		LA372	Myoglobin, purity ≥ 95%	E. coli
Native antigen		**431-11**	**Myoglobin, purity ≥ 99%**	**Human heart**
		431-18	Myoglobin, purity ≥ 90%	Mouse heart

Neutrophil Gelatinase-Associated Lipocalin (NGAL)

Neutrophil gelatinase-associated lipocalin (NGAL) is a small glycoprotein. It is associated with antimicrobial defense, and in the distal tubules and collecting duct of the kidney. Elevated levels of blood and urine NGAL are associated with acute or chronic renal failure.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100579**	**Anti-h NGAL 4202**	**In vitro**
		100580	**Anti-h NGAL 4203**	**In vitro**
		100581	**Anti-h NGAL 4204**	**In vitro**
		100582	**Anti-h NGAL 4205**	**In vitro**
		HM306	NGAL antibody	In vivo
		HM307	NGAL antibody	In vivo
Recombinant antigen		342-49R	NGAL, purity ≥ 96%, lyophilized	Pichia pastoris (Yeast)
		610012	**NGAL, lyophilized**	**E. coli**
		LA312	NGAL, purity ≥ 98%	E. coli
Native antigen		342-49	NGAL, purity ≥ 90%	Human leukocytes

N-Terminal Pro-B-Type Natriuretic Peptide (NT-proBNP)

The plasma concentrations of both the N-terminal fragment of Pro-B-type natriuretic peptide (NT-proBNP) and prohormone of brain natriuretic peptide (proBNP) are significantly increased in patients with asymptomatic and symptomatic left ventricular dysfunction.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100521**	**Anti-h NT-proBNP 1306**	**In vitro**
		100710	**Anti-h NT-proBNP 1309**	**In vitro**
		100712	Anti-h NT-proBNP 1308	In vitro
		100716	Anti-h NT-proBNP 1311	In vitro
		100717	Anti-h NT-proBNP 1312	In vitro
		100718	Anti-h NT-proBNP 1310	In vitro
		100719	**Anti-h NT-proBNP 1307**	**In vitro**
		140010	Anti-h NT-proBNP RC1306	In vitro
		140011	Anti-h NT-proBNP RC1307	In vitro
		HM071	NT-proBNP (13-27) antibody	In vivo
		HM074	NT-proBNP (61-76) antibody	In vivo
		HM1196	NT-proBNP (38-44) antibody	In vitro
		HM146	NT-proBNP (38-44) antibody	In vivo
		HM148	NT-proBNP (27-31) antibody	In vivo
		HM209	NT-proBNP (39-76) antibody	In vivo
		HM210	NT-proBNP (13-27) antibody	In vivo
		HM315	NT-proBNP (13-27) antibody	In vivo
		HM316	NT-proBNP (61-76) antibody	In vivo
		HM899	NT-proBNP (42-46) antibody	In vivo
Polyclonal antibody		JP190	NT-proBNP antibody	In vivo
Recombinant antigen		**610090**	**NT-proBNP, 100 µg, lyophilized**	**E. coli**
		LA313	NT-proBNP, purity ≥ 95%	E. coli
		LA371	NT-proBNP, purity ≥ 95%	E. coli

Plasmin

Plasmin is an enzyme present in blood that degrades many blood plasma proteins, including fibrin clots.

Product Type		Catalog #	Description	Source/Method
Native antigen		491-41	Plasmin, purity ≥ 90%, lyophilized	Human plasma

Plasminogen

Plasminogen is a plasma protein that exists in various zymogenic forms. Plasmin, the proteolytically active form of plasminogen, is known for its essential role in fibrinolysis.

Product Type	Catalog #	Description	Source/Method
Native antigen	491-30	Plasminogen (PLG), purity ≥ 95%, lyophilized	Human plasma

Prothrombin

Prothrombin is proteolytically cleaved by the prothrombinase enzyme complex to form thrombin.

Product Type	Catalog #	Description	Source/Method
Native antigen	494-23	Prothombin, purity ≥ 90%	Human plasma

Renin

Renin, also known as angiotensinogenase, is an aspartic protease protein and enzyme secreted by the kidneys. It participates in the body's renin–angiotensin–aldosterone system, which increases the volume of extracellular fluid and causes arterial vasoconstriction.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**700025**	**Anti-h renin 10850**	**In vitro**
	700026	**Anti-h renin 10851**	**In vitro**
	700030	**Anti-h renin 10852**	**In vitro**

ST2

ST2 is an interleukin-1 family receptor expressed in the heart. ST2 protein has two isoforms: a soluble (sST2) and membrane-bound form. Patients with heart failure and elevated ST2 protein levels in the blood are at risk for heart failure progression.

Product Type	Catalog #	Description	Source/Method
Monoclonal antibody	**100680**	**Anti-h ST2 10201**	**In vitro**
	100681	Anti-h ST2 10202	In vitro
	100682	**Anti-h ST2 10203**	**In vitro**
	100683	**Anti-h ST2 10204**	**In vitro**
	100684	Anti-h ST2 10205	In vitro
	100685	**Anti-h ST2 10206**	**In vitro**
	100686	Anti-h ST2 10207	In vitro
	HM696	ST2 antibody	In vivo
	HM697	ST2 antibody	In vivo
Recombinant antigen	LA446	ST2, purity >95%	Mammalian expression system

Thrombin

Thrombin is a serine protease enzyme. During the clotting process, prothrombin is proteolytically cleaved by the prothrombinase enzyme complex to form thrombin.

Product Type	Catalog #	Description	Source/Method
Native antigen	528-50	Thrombin, lyophilized	Bovine plasma
	528-50H	Thrombin, lyophilized	Bovine plasma
	528-70	Thrombin, purity ≥ 95%, lyophilized	Human plasma

Triglycerides

Triglycerides are a type of lipid composed of an ester and three fatty acid chains. They act as a source of energy in the body and store unused calories.

Product Type	Catalog #	Description	Source/Method
Native antigen	361-56	Triglyceride fraction	Human plasma
	571-11	Triglyceride fraction	Chicken egg yolk

Troponin Complex

The troponin complex is made up of three components: the calcium binding subunit, troponin C (TnC); the inhibitory subunit, troponin I (TnI); and an elongated protein, troponin T (TnT), that binds both TnC and TnI and anchors the entire complex to tropomyosin.

Product Type	Catalog #	Description	Source/Method
Native antigen	550-10	Troponin complex (I-T-C)	Human heart

Troponin I (TnI)

Troponin I (TnI), the inhibitory subunit, is measured in serum cardiac troponin tests, which can help diagnose several different heart disorders, especially myocardial infarction.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		**100125**	**Anti-h cTnI 9705**	**In vitro**
		100129	**Anti-h cTnI 9701**	**In vitro**
		100180	Anti-h cTnI 9707	In vitro
		100181	Anti-h cTnI 9703	In vitro
		140000	Anti-h cTnI RC9701	In vitro
		140020	Anti-h cTnI RC9707	In vitro
		700050	**Anti-h cTnI RC9750**	**In vitro**
		HM192	TnI (41-49) antibody	In vivo
		HM200	TnI (13-22) antibody	In vivo
		HM233	TnI (24-40) antibody	In vivo
		HM412	TnI (41-49) antibody	In vivo
		HM413	TnI (24-40) antibody	In vivo
		HM456	TnI (41-60) antibody	In vivo
		HM896	TnI (27-40) antibody	In vitro
		HM897	TnI (41-49) antibody	In vitro
		HM898	TnI (85-92) antibody	In vitro
Recombinant antigen		**610102**	**cTnI, 100 µg, lyophilized**	**E. coli**
		LA146	TnI, purity ≥ 98%	E. coli
		LA369L	TnI, purity ≥ 95%	E. coli
Native antigen		**550-11**	**TnI, purity ≥ 98%**	**Human heart**

Troponin T (TnT)

Troponin T (TnT) binds both TnC and TnI and anchors the entire complex to tropomyosin. Serum cardiac troponin tests can be used to help diagnose several different heart disorders, especially myocardial infarction.

Product Type		Catalog #	Description	Source/Method
Monoclonal antibody		100660	Anti-h cTnT 3701	In vitro
		100698	Anti-h cTnT 3710	In vitro
		100699	**Anti-h cTnT 3712**	**In vitro**
		100700	**Anti-h cTnT 3703**	**In vitro**
		100701	Anti-h cTnT 3711	In vitro
		100704	**Anti-h cTnT 3708**	**In vitro**
Recombinant antigen		610101	cTnT, 100 µg, lyophilized	E. coli
Native antigen		550-21	TnT, purity ≥ 98%	Human heart
		LA149	TnT, purity ≥ 95%	Human cardiac tissue

Very Low Density Lipoprotein (VLDL)

Very-low-density lipoprotein, density relative to extracellular water, is a type of lipoprotein made by the liver. VLDL is one of the five major groups of lipoproteins that enable fats and cholesterol to move within the water-based solution of the bloodstream.

Product Type		Catalog #	Description	Source/Method
Native antigen		365-10	VLDL	Human plasma

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Biospecimens

Product Type	Catalog #	Description
Cerebrospinal fluid (CSF)	991-19-P	CSF, pooled human donors
	991-19-S	CSF, single human donor
Plasma	991-58-GER1/2/3	Plasma, geriatric, single human donor
	991-58-P	Plasma, pooled human donors
	991-58-PS	Plasma, patient sample
	991-58-PS-CK	Plasma, creatine kinase, patient sample
	991-58-PS-PCT	Plasma, procalcitonin, patient sample
	991-58-PS-TNI	Plasma, troponin I, patient sample
	991-58-S	Plasma, single human donor
	991-58-S-COPD	Plasma, COPD, single human donor
	991-58-S-HD	Plasma, heart disease, single human donor
	991-58-S-HT	Plasma, hypertension, single human donor
	991-58-S-NTPBNP	Plasma, NT-proBNP, single human donor
	991-58-S-OB	Plasma, obese patient, single human donor
Saliva	991-05-GER1/2/3	Saliva, geriatric, single human donor
	991-05-P	Saliva, pooled human donors
	991-05-S	Saliva, single human donor
Serum	991-24-GER1/2/3	Serum, geriatric, single human donor
	991-24-P	Serum, pooled human donors
	991-24-PS	Serum, normal, patient sample
	991-24-S-ANEM	Serum, anemia, single human donor
	991-24-PS-ALB	Serum, albumin, patient sample
	991-24-PS-CREA	Serum, creatinine, patient sample
	991-24-PS-CYSC	Serum, cystatin C, patient sample
	991-24-PS-FERR	Serum, ferritin, patient sample
	991-24-PS-HAPT	Serum, haptoglobin, patient sample
	991-24-PS-HDLC	Serum, high density lipoprotein cholesterol (HDL-C), patient sample

Biospecimens

Product Type	Catalog #	Description
Serum	991-24-PS-HCY	Serum, homocysteine (Hcy), patient sample
	991-24-PS-TNI	Serum, troponin I, patient sample
	991-24-PS-TRIG	Serum, triglyceride, patient sample
	991-24-S	Serum, single human donor
	991-24-S-CRP	Serum, c-reactive protein, single human donor
	991-24-S-HD	Serum, heart disease, single human donor
	991-24-S-IL6	Serum, interleukin-6 (IL-6), single human donor
	991-24-S-NTPBNP	Serum, NT-proBNP, single human donor
	991-24-S-OB	Serum, obese patient, single human donor
	991-24-S-SEPSIS	Serum, sepsis, single human donor
Tears	991-12-P	Tears, pooled human donors
	991-12-S	Tears, single human donor
Urine	991-03-GER1/2/3	Urine, geriatric, single human donor
	991-03-P	Urine, pooled human donors
	991-03-S	Urine, single human donor
Whole blood	991-50-GER1/2/3	Whole blood, geriatric, single human donor
	991-50-P	Whole blood, pooled human donors
	991-50-P-A1C	Whole blood, hemoglobin A1c (HbA1c), pooled patient samples
	991-50-S	Whole blood, single human donor
	991-50-S-A1C	Whole blood, hemoglobin A1c (HbA1c), patient sample

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Notes

Notes

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