

BioVendor new products

April, 2018

Dear customer, we would like to introduce our new products and hope you will find them interesting. Below is a list of events, in which we plan to participate in 2018:

ECCMID 2018 (21 \ 04 \ 2018 - 24 \ 04 \ 2018 - Madrid)

AACC 2018 (29 \ 07 \ 2018 - 02 \ 08 \ 2018 - Chicago)

MEDICA 2018 (12 \ 11 \ 2018 - 15 \ 11 \ 2018 - Dusseldorf)

miRNA

NEW MIREIA KITS

CAT. NO.	STATUS	NAME	ASSAY FORMAT
RDM0019H	New	hsa-miR-1-3p miREIA	miREIA - miRNA enzyme immunoassay
RDM0009H	New	hsa-miR-23a-3p miREIA	miREIA - miRNA enzyme immunoassay
RDM0002H	New	hsa-miR-93-5p miREIA	miREIA - miRNA enzyme immunoassay
RDM0018H	New	hsa-miR-126-3p miREIA	miREIA - miRNA enzyme immunoassay
RDM0013H	New	hsa-miR-142-5p miREIA	miREIA - miRNA enzyme immunoassay
RDM0004H	New	hsa-miR-150-5p miREIA	miREIA - miRNA enzyme immunoassay
RIK001	New	RNA Isolation Kit	Isolation kit - total RNA incl. small RNA
RIK002	New	RNA Isolation Kit Plasma/Serum	Isolation kit - total RNA incl. small RNA

miREIA - miRNA Enzyme Immunoassay

Molecular diagnostics meets immunoassays

miRNAs not only **regulate functions in the healthy heart** but also **play a role in** mechanisms of **cardiovascular disease**. miRNA can be released into biological fluids, including blood, from dying cells, such as necrotic cardiomyocytes following AMI, or actively secreted from living cells under stimulation.



miRNA biomarkers are associated e.g. with **Chronic heart failure, Coronary artery disease, Stable and Unstable angina pectoris, Myocardial infarction, and Acute heart failure.**

For these and more BioVendor miREIA kits, please visit www.biovendor.com/mirna.

microRNAs (miRNAs) are a class of single-stranded non-coding RNA molecules with a length of 19-23 nucleotides. They play a role in negative post-transcriptional regulation by binding to complementary sequences on mRNA and blocking translation into protein.

miREIA is a BioVendor proprietary method based on combination of immunoassay and molecular biological principles. The main advantage is the **quantitative determination of miRNA** concentrations.

NEW IMMUNOASSAYS

CAT. NO.		NAME		IVD/RUO	ASSAY FORMAT
REA611/96R	Human	Calretinin	ELISA	RUO	Sandwich ELISA
RD191422200R	Human	IGFBP-7	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191248200R	Human	Ileal FABP (FABP6)	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD194015200R	Human	Interleukin-6	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191485200R	Human	NT-proANP	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191519200R	Human	PREF-1	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody

» FEATURED PRODUCT: HUMAN NT-proANP ELISA

NT-proANP is an ANP (atrial natriuretic peptide) precursor. ANP is one of three natriuretic peptides (atrial/ANP, B-type/BNP, C-type/CNP), important cardio-renal hormones.

ANP is rapidly removed from plasma but **NT-pro ANP** has a long half life (60–120 mins in human), and serves as **an excellent marker of ANP secretion**. Plasma ANP levels are increased under such pathological conditions as **heart failure, myocardial infarction and hypertension**. Several studies have shown that plasma ANP levels are significantly elevated in **asymptomatic patients with left ventricular dysfunction**. Also, plasma ANP levels increase in response to increases in **right and/or left atrial pressure**, while increases in BNP reflect the degree of ventricular overload.

Monitoring of NT-proANP and NT-proBNP levels can provide **prognostic information for stroke and atrial fibrillation**, for **sepsis** and for **development of multiple organ dysfunction syndrome** in severe trauma patients.

- Validated for human serum, plasma (EDTA, citrate, heparin)
- Very high sensitivity (LOD 10 pg/ml)
- Interesting new member of broad BioVendor portfolio of CVD biomarkers

See more about [Human NT-proANP ELISA](#)

RELATED PRODUCTS

[RD172485100](#) Natriuretic Peptides A Human *E. coli*



NT-proANP

Cardiac dysfunction
in septic patients

Left ventricular dysfunction
in asymptomatic patients

Plasma ANP levels reflect increase
right and/or atrial pressure

NEW PROTEINS

CAT. NO.		NAME	SIZE	SOURCE
RD172584100	Human	BAFF	0.1 mg	<i>E. coli</i>
RD172506100	Human	FAIM3	0.1 mg	<i>E. coli</i>
RD172583100	Human	IGFBP-2	0.1 mg	<i>E. coli</i>
RD272567100	Human	IL-2	0.1 mg	<i>E. coli</i>
RD172476100	Human	IL-34	0.1 mg	<i>E. coli</i>
RD172500100	Human	MYDGF	0.1 mg	<i>E. coli</i>
RD172491100	Human	Ninjurin-1	0.1 mg	<i>E. coli</i>
RD172508100	Human	PLUNC	0.1 mg	<i>E. coli</i>
RD872582100	Horse	Procalcitonin	0.1 mg	<i>E. coli</i>
RD172537100	Human	SPP-24	0.1 mg	<i>E. coli</i>
RD172163025	Human	Uromodulin	0.025 mg	Human urine

» FEATURED PRODUCT: HUMAN IGFBP-2 *E. COLI*

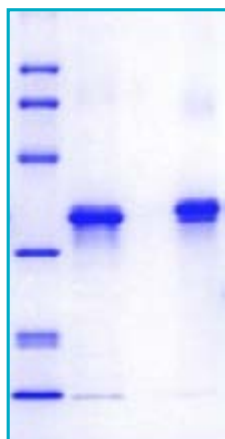
Insulin-Like Growth Factor Binding Protein-2 is a member of the superfamily of insulin-like growth factor (IGF) binding proteins. IGFBP-2 is an unglycosylated polypeptide of 31.3 kDa, which **forms binary IGF-complexes** and shows no circadian rhythm in the circulation. IGFBP-2 is the second most frequent IGFBP in the human blood.

The serum concentration of IGFBP-2 increases in fasting, after major surgery and after trauma, but the **increasing of the concentration** is most intensive in **malignant diseases**. The correlation of the IGFBP-2 level to the degree of progression is a striking feature in various tumor types as is the **normalization of the IGFBP-serum levels after remission**. The IGFBP-2 concentration is age-dependent in blood.

At cellular level IGFBP-2 seems to stimulate the proliferation and dissemination of solid tumors via an IGF-independent mechanism.

BioVendor produces recombinant Human IGFBP-2 in *E.coli*. The protein contains 297 AA. MW: 32.4 kDa (calculated).

UniProtKB acc. No. P18065 (Ala36-Gln325). N-terminal His-tag (7 extra AA). Protein identity confirmed by LC-MS/MS. Endotoxin < 0.1 EU/μg.



14 % SDS-PAGE separation of Human IGFBP-2:

1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 μg/lane
3. Non-reduced and non-boiled sample, 2.5 μg/lane

See more about IGFBP-2 [Human IGFBP-2 *E. coli*](#)

RELATED PRODUCTS

[RMEE05R](#) IGFBP-2 Human ELISA

[RMEE08R](#) IGFBP-2 Mouse/Rat ELISA

NEW ANTIBODIES

CAT. NO.		PRODUCT	REACTIVE SP.	SIZE
RD184129100	Anti-Human	Apolipoprotein M	Sheep Polyclonal Antibody	0.1 mg
RD184320100	Anti-Human	Cornifin-B	Sheep Polyclonal Antibody	0.1 mg
RD181324100	Anti-Human	Decorin	Rabbit Polyclonal Antibody	0.1 mg
RD184324100	Anti-Human	Decorin	Sheep Polyclonal Antibody	0.1 mg
RD181259100	Anti-Human	FAM3B	Rabbit Polyclonal Antibody	0.1 mg
RD181327100	Anti-Human	Granulysin	Rabbit Polyclonal Antibody	0.1 mg
RD184327100	Anti-Human	Granulysin	Sheep Polyclonal Antibody	0.1 mg
RD184240100	Anti-Human	Liver Fatty Acid Binding Protein	Sheep Polyclonal Antibody	0.1 mg
RD181239100	Anti-Human	Prohibitin	Rabbit Polyclonal Antibody	0.1 mg
RD184239100	Anti-Human	Prohibitin	Sheep Polyclonal Antibody	0.1 mg
RD181257100	Anti-Human	Regucalcin	Rabbit Polyclonal Antibody	0.1 mg
RD184257100	Anti-Human	Regucalcin	Sheep Polyclonal Antibody	0.1 mg
RD184212100	Anti-Human	S100A5	Sheep Polyclonal Antibody	0.1 mg
RD181096100	Anti-Human	Stanniocalcin 2	Rabbit Polyclonal Antibody	0.1 mg
RD184096100	Anti-Human	Stanniocalcin 2	Sheep Polyclonal Antibody	0.1 mg

» FEATURED PRODUCTS: ANTI HUMAN DECORIN RABBIT AND SHEEP POLYCLONAL ANTIBODIES

Decorin (DCN, PG40 or PGS2) belongs to the class 1 of the small leucine-rich proteoglycan (SLRP) family. Decorin is member of the class 1 of SLRP family. It consists of a 40 kDa core protein with an attached glycosaminoglycan chain consisting of either chondroitin sulfate (CS) or dermatan sulfate (DS) in the range of 120 to 180 kDa.

Decorin is secreted mainly by mesenchymal cells and plays a key role in the **regulation of extracellular matrix assembly** by binding to matrix associated growth factors FGF-2, GDF-8/Myostatin, TGF-beta, and WISP-1. It also binds and activates EGF R, ErbB4, IGF-1 R and EGFR. In vivo, Decorin , and inhibits tumor progression. Decorin is cleared from the extracellular space by LRP-mediated endocytosis.

The antibodies have been obtained from rabbits or sheep, respectively, immunized with a recombinant human Decorin produced in E.coli. The antibodies have been immunoaffinity purified using the immunization antigen.

See more about [Decorin Human Rabbit PAb](#) or [Decorin Human Sheep PAb](#)

RELATED PRODUCTS

[RD193324200R](#) Decorin Human ELISA

[RD172324100](#) Decorin Human *E. coli*