

BioVendor new products

March 3, 2014

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 2014:

37th DGZ Annual Meeting (18 \ 03 \ 2014 - 21 \ 03 \ 2014 - Regensburg)

INTS 2014 (19 \ 03 \ 2014 - 23 \ 03 \ 2014 - Budapest)

Analytica 2014 (01 \ 04 \ 2014 - 04 \ 04 \ 2014 - Munich)

AACR Annual Meeting 2014 (05 \ 04 \ 2014 - 09 \ 04 \ 2014 - San Diego)

ECCMID 2014 (10 \ 05 \ 2014 - 13 \ 05 \ 2014 - Barcelona)

ECTS 2014 (17 \ 05 \ 2014 - 20 \ 05 \ 2014 - Prague)

ECO 2014 (28 \ 05 \ 2014 - 31 \ 05 \ 2014 - Sofia)

ADA 2014 (13 \ 06 \ 2014 - 17 \ 06 \ 2014 - San Francisco)

BIO International Convention 2014 (23 \ 06 \ 2014 - 26 \ 06 \ 2014 - San Diego)

IMMUNOASSAYS

» FEATURED PRODUCT: HUMAN FETUIN-B ELISA

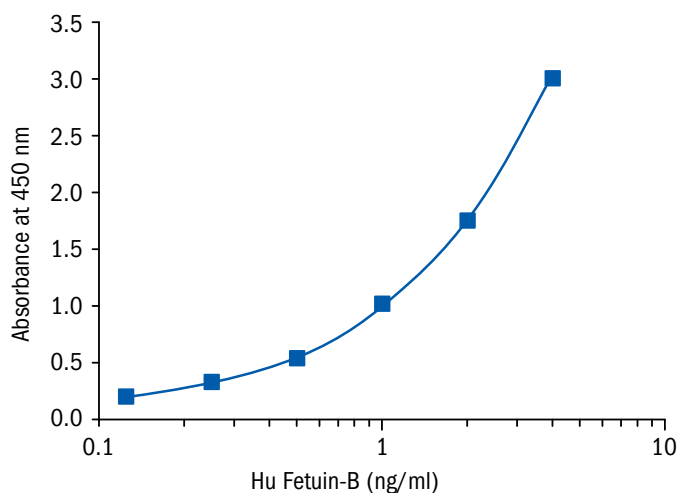
The protein fetuin-B encoded by the FETUB gene is a member of the fetuin family, part of the cystatin superfamily of cysteine protease inhibitors. Its expression is regulated by farnesoid X receptor (FXR), a nuclear receptor and a key factor in the regulation of bile acid, lipid and carbohydrate metabolism. Fetuin-B, similarly to fetuin-A, is an inhibitor of basic calcium phosphate precipitation, however its activity is lower. Fetuin-B mRNA is most highly expressed in liver tissue and highly expressed in tongue and placenta tissues. At the protein level, fetuin-B was found in the sera and several organs of mice, rats and humans. Unlike fetuin-A, the amount of fetuin-B protein in human serum varied with gender and was higher in females than in males.

Proteomic studies on rats showed that reduced plasma fetuin-B may be associated with higher risk of diet induced obesity and may be used for evidence-based gender-specific clinical treatment of diabetes. Elevated fetuin-B levels were observed in CSF of rats with experimentally induced autoimmune encephalomyelitis - a model resembling certain aspects of multiple sclerosis. Fetuin-A and -B are negative acute-phase proteins and their hepatic expression is down-regulated in response to an inflammatory stimulus. Genetic association studies have reported tumor suppressor activity. Overexpression of fetuin-B in skin squamous carcinoma cells suppresses tumor growth in nude mice. Targeted gene deletion of fetuin-B in mice causes premature zona pellucida hardening and, consequently, female infertility. Transplanting fetuin-B-deficient ovaries into wild-type recipients restores fertility to the ovaries, indicating that plasma fetuin-B is necessary and sufficient for fertilization. A recent study found increased levels of fetuin-B in dogs with osteoarthritis compared to healthy dogs.

The Fetuin-B ELISA kit is a sandwich ELISA intended for the determination of fetuin-B in human serum and plasma.

- High sensitivity: 0.02 ng/ml
- All the test procedure can be performed in room temperature
- Short testing time (< 3 hours)

Areas of investigation: Energy metabolism and body weight regulation, DM2T, oncology, bone metabolism, immune response, infection and inflammation, reproduction.



RELATED PRODUCTS

- [RRD191037100](#) Fetuin-A (AHSG) Human ELISA
[RD172037100](#) Fetuin-A (AHSG) NATIVE, Human Plasma
[RD181036100](#) Fetuin-A (AHSG) Human, Rabbit Polyclonal Antibody
[RD184036100](#) Fetuin-A (AHSG) Human, Goat Polyclonal Antibody
[RD172172100](#) Fetuin-B Human HEK293

NEW IMMUNOASSAYS

CAT. NO.		NAME		IVD/RUO	ASSAY FORMAT
RD191172200R	Human	Fetuin-B	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RSHAKDNPA-012R	Dog	NT-pro ANP	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191048200R	Human	S100P	ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody

RECOMBINANT PROTEINS

» FEATURED PRODUCT: HUMAN OSTEOBLAST SPECIFIC FACTOR 2 HEK293

Periostin, also called osteoblast-specific factor 2 (OSF-2) is a 90 kDa secreted protein. The structure is composed of an amino-terminal EMI domain, a tandem repeat of 4 fas I domains and a carboxyl-terminal domain including a heparin-binding site at its C-terminal end; therefore it is characterized as a member of the fasciclin family.

As a member of a growing family of matricellular proteins, periostin interacts with components of the extracellular milieu, multiple cell-surface receptors, cytokines, growth factors, proteases, and structural proteins. On the other hand, recent observations have demonstrated that periostin functions in fibrillogenesis in association with extracellular matrix molecules inside the cell.

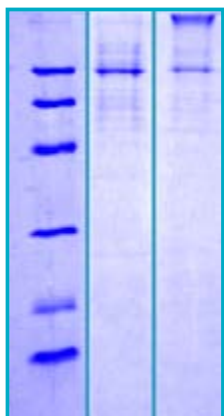
Periostin is expressed in connective tissues including the peritoneum, periodontal ligaments, tendons and skin. It is known to act as a key regulator of bone and tooth formation and remodeling as well as in connective tissue repair.

The protein is also prominent in cardiac development and cardiovascular disease, in the development of various tumors, such as breast, lung, colon, pancreatic, and ovarian cancers.

Within the heart, fibrogenic differentiation is required for normal tissue maturation, remodeling and function, as well as in response to a pathological myocardial insult.

Periostin promotes cancer cell survival, epithelial-mesenchymal transition, invasion, and metastasis interacting with the receptors at the cell surface, mainly integrins, and signaling via the PI3-K/Akt and other pathways. High periostin expression level is found in the majority of breast, lung, colon, pancreatic, and ovarian cancer samples, but also in tumors from patients suffering from melanoma, gastric cancer, head and neck squamous cell carcinoma, oral squamous cell carcinoma, thymoma, and neuroblastoma, although it is not expressed in patient's normal tissues. The published data suggest that higher levels of periostin correlate with increased tumor progression, angiogenesis, the late-stage metastatic tumors, as well as a worse prognosis for patients.

BioVendor's Human Osteoblast Specific Factor 2 is a recombinant protein expressed in HEK293 cells. It is Asn22-Gln836 of human periostin (UniProtKB acc. No. Q15063), with calculated MW of 91.8 kDa. Protein identity has been confirmed by LC-MS/MS. The protein has been lyophilized from phosphate buffered saline with 5% trehalose and does not contain any inert protein or antimicrobial agents.



14 % SDS-PAGE separation of Human OSF2 (HEK):

1. MW 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

RELATED PRODUCTS

[RAG019R](#) Periostin Human ELISA

[RAG020R](#) Periostin Mouse ELISA

[RD172045100](#) Osteoblast Specific Factor 2 Human E. coli

[RD181045050](#) Osteoblast Specific Factor 2 Human, Rabbit Polyclonal Antibody

[RD184045100](#) Osteoblast Specific Factor 2 Human, Sheep Polyclonal Antibody

NEW RECOMBINANT PROTEINS

CAT. NO.		NAME	SIZE	SOURCE
RD372023100	Rat	Adiponectin	0.1 mg	HEK293
RD172306100	Human	Angiopoietin-Like Protein 6	0.1 mg	<i>E. coli</i>
RD172348100	Human	Annexin A2	0.1 mg	<i>E. coli</i>
RD172372100	Human	Cell Death-Inducing DFFA-Like Effector C	0.1 mg	<i>E. coli</i>
RD172360100	Human	Cyclophilin B	0.1 mg	<i>E. coli</i>
RD172364100	Human	Cyclophilin F	0.1 mg	<i>E. coli</i>
RD172261100	Human	Cysteine-Rich Secretory Protein 2	0.1 mg	<i>E. coli</i>
RD172262100	Human	Cysteine-Rich Secretory Protein 3	0.1 mg	<i>E. coli</i>
RD172173100	Human	Endothelial Lipase	0.1 mg	HEK293
RD172379100	Human	GP96 (HSP90B1)	0.1 mg	HEK293
RD172232100	Human	High Mobility Group Protein B1	0.1 mg	<i>E. coli</i>
RD172370100	Human	Leukocyte Cell-Derived Chemotaxin-2	0.1 mg	<i>E. coli</i>
RD172358100	Human	Neuritin	0.1 mg	<i>E. coli</i>
RD172045025-HEK	Human	Osteoblast Specific Factor 2	0.025 mg	HEK293
RD172330100	Human	Podocin	0.1 mg	<i>E. coli</i>
RD472006100	Canine	Procalcitonin	0.1 mg	<i>E. coli</i>
RD172373100	Human	Secretoglobulin Family 3A Member 2	0.1 mg	<i>E. coli</i>

BioVendor – Laboratorni medicina a.s.

Phone: +420 549 124 185

Fax: +420 549 211 460

E-mail: info@biovendor.com

www.biovendor.com