

Recombinant Human FBLN2 protein (His tag)

Catalog Number:PDMH100083



Note: Centrifuge before opening to ensure complete recovery of vial contents.

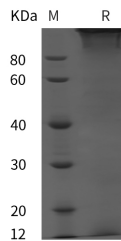
Description

Synonyms	Fibulin-2 (FIBL-2);FBLN2
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Leu1184
Accession	P98095
Calculated Molecular Weight	130.1 kDa
Observed molecular weight	130 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Fibulin 2 is the second largest member of the seven-member fibulin family of extracellular membrane (ECM) glycoproteins. Fibulin-2 consists of 1184 amino acids (aa) with a predicted molecular weight of ~125 kDa. The overall structure is common to fibulins: 3 Anaphylatoxin (AT)-like domains, 11 Epidermal Growth Factor (EGF)-like domains, and a Fibulin-type carboxy-terminal (FC) domain. Fibulin 2 is considered a Class I fibulin because the 400-residue N-terminus is divided into the Na and Nb sections, with the Na section containing 150-residues and 12 cysteines while the remaining Nb section is cysteine-free. The protein is known to form disulfide-linked homodimers, but it can also be secreted as an oligomer. Fibulin 2 is highly conserved across species, with the human protein sharing 82% amino acid identity compared to both mouse and rat. Fibulin 2 is considered a multifunctional binding protein due to its association

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with numerous ECM components, but its specific interactions have yet to be determined. Fibulin 2 is localized at the interface between microfibrils and the elastin core and its known interactions include nidogen-1, perlecan, laminin, aggrecan, endostatins, versican, collagen, and tropoelastin. It is down-regulated in numerous forms of cancer including breast, colorectal, lung, esophageal, and squamous cell carcinoma, but over-expression has been shown with solid tumors. There is also evidence that suggests that Fibulin 2 may play an indirect role in the neurogenesis of adult neural stem cells via interaction with integrins and TGF-beta 1.

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