abcam

Product datasheet

Recombinant Human Fibulin 1 protein ab114781

1 Image

Overview

Product name	Recombinant Human Fibulin 1 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ

Amino Acid Sequence

Accession	P23142
Species	Human
Sequence	GDLDVGGLQETDKIIEVEEEQEDPYLNDRCRGGGPCKQQCRDTGDEVVCS CFVGYQLLSDGVSCEDVNECITGSHSCRLGESCINTVGSFRCQRDSSCGT
Molecular weight	37 kDa including tags
Amino acids	151 to 250

Specifications

Our Abpromise guarantee covers the use of **ab114781** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml. Best used within three months from the date of receipt.

Preparation and Storage

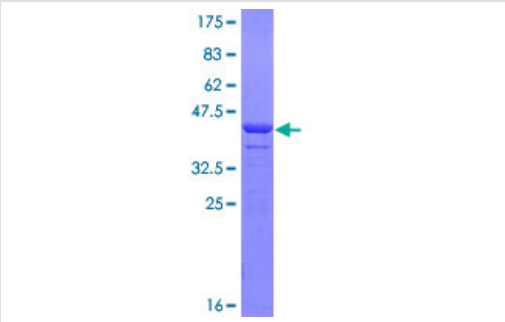
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Incorporated into fibronectin-containing matrix fibers. May play a role in cell adhesion and migration along protein fibers within the extracellular matrix (ECM). Could be important for certain developmental processes and contribute to the supramolecular organization of ECM architecture, in particular to those of basement membranes. Has been implicated in a role in cellular transformation and tumor invasion, it appears to be a tumor suppressor. May play a role in haemostasis and thrombosis owing to its ability to bind fibrinogen and incorporate into clots. Could play a significant role in modulating the neurotrophic activities of APP, particularly soluble APP.
Tissue specificity	Isoform A and isoform B are only expressed in placenta. Isoform C and isoform D are expressed in a variety of tissues and cultured cells.
Involvement in disease	Note=A chromosomal aberration involving FBLN1 is found in a complex type of synpolydactyly referred to as 3/3-prime/4 synpolydactyly associated with metacarpal and metatarsal synostoses. Reciprocal translocation t(12;22)(p11.2;q13.3) with C12orf2. Fibroblasts derived from a patient with synpolydactyly displayed alterations in the level of isoform D splice variant incorporated into the ECM and secreted into the conditioned culture medium. By contrast, the expression of isoform C was not perturbed in the patients fibroblasts. Furthermore, no aberrant polypeptides were detected in extracts of cultured patients fibroblasts. The translocation t(12;22) may result in haploinsufficiency of the isoform D splice variant, which could lead to the observed limb malformation. Note=Elevated expression and altered processing of FBLN1 protein is associated with human breast cancer.
Sequence similarities	Belongs to the fibulin family. Contains 3 anaphylatoxin-like domains. Contains 9 EGF-like domains.
Developmental stage	Widely expressed during embryonic development. Prominent in the matrix of the leptomeningeal anlage, in basement membranes of the neuroepithelium and the perineurium of peripheral nerves. In embryos of gestational week (gw) 4, staining was observed in the early mesenchymal bone anlagen. In gw 6.5 and 8, all perichondrial structures showed expression but the chondrocytes themselves showed no staining. In gw 10, expression is prominent in the interterritorial matrix surrounding the hypertrophic chondrocytes.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



SDS-PAGE - Recombinant Human Fibulin 1 protein (ab114781)

ab114781 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

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