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Fibulin 1 Rabbit pAb

Catalog # AP98215

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P23142
Other Accession	P23142
Predicted	Rat, Pig, Human, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77214
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Fibulin 1
Epitope Specificity	501-600/703
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the fibulin family. Contains 3 anaphylatoxin-like domains. Contains 9 EGF-like domains.
SUBUNIT	Homomultimerizes and interacts with various extracellular matrix components such as FN1, LAMA1, LAMA2, NID, ACAN, CSPG2 and type IV collagen. Interacts also with APP, NOV, FGB and HPV type 16, HPV type 18, HPV type 31 and BPV type 1 E6 proteins. Interacts with FBLN7.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Fibulin-1 is an extracellular matrix protein often associated with fibronectin (FN) in vivo. Fibulin-1 was found to have pronounced inhibitory effects on the cell attachment and spreading promoted by FN. Fibulin-1 was also found to inhibit the motility of a variety of cell types on FN substrata. For example, the FN-dependent haptotactic motility of breast carcinoma (MDA MB231) cells, epidermal carcinoma (A431), melanoma (A375 SM), rat pulmonary aortic smooth muscle cells (PAC1) and Chinese hamster ovary (CHO) cells was inhibited by the presence of fibulin-1 bound to FN-coated Boyden chamber membranes. Cells transfected to overproduce fibulin-1 displayed reduced velocity, distance of movement and persistence time on FN substrata. Similarly, the incorporation of fibulin-1 into FN-containing type I collagen gels inhibited the invasion of endocardial cushion mesenchymal cells migrating

from cultured embryonic heart explants. By contrast, incorporation of fibulin-1 into collagen gels lacking FN had no effect on the migration of endocardial cushion cells.

Additional Information

Gene ID	2192
Other Names	FBLN; FIBL1; FBLN1_HUMAN; FBLN1; FIBL-1; FBLN1_MOUSE; Basement-membrane protein 90 (BM-90); fibulin 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FBLN1
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.
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	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.

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