10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Fibulin 3 Antibody

Catalog # ASC10920

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q12805
Other Accession	NP_001034437, 9665262
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	54641
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Fibulin 3 antibody can be used for detection of Fibulin 3 by Western blot at 0.5 - 1 g/mL. Antibody can also be used for immunocytochemistry starting at 20 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	2202
Other Names	EGF-containing fibulin-like extracellular matrix protein 1, Extracellular protein S1-5, Fibrillin-like protein, Fibulin-3, FIBL-3, EFEMP1, FBLN3, FBNL
Target/Specificity	EFEMP1; At least three isoforms of Fibulin 3 are known to exist. This antibody is predicted to not cross-react with other Fibulin proteins.
Reconstitution & Storage	Fibulin 3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Fibulin 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EFEMP1
Synonyms	FBLN3, FBNL
Function	Binds EGFR, the EGF receptor, inducing EGFR autophosphorylation and the activation of downstream signaling pathways. May play a role in cell adhesion and migration. May function as a negative regulator of chondrocyte differentiation. In the olfactory epithelium, it may regulate glial cell migration, differentiation and the ability of glial cells to support neuronal neurite outgrowth.

Cellular Location	Secreted, extracellular space, extracellular matrix. Note=Localizes to the lamina propria underneath the olfactory epithelium {ECO:0000250|UniProtKB:O35568}
Tissue Location	In the eye, associated with photoreceptor outer and inner segment regions, the nerve fiber layer, outer nuclear layer and inner and outer plexiform layers of the retina

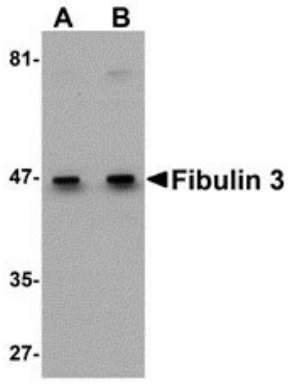
Background

Fibulin 3 Antibody: Fibulin 3, also known as epidermal growth factor (EGF)-containing fibulin-like extracellular matrix protein 1 (EFEMP1), is a member of the fibulin family of extracellular glycoproteins, a group of proteins that are widely distributed and frequently associated with vascular and elastic tissues. The fibulin proteins typically contain a tandem array of EGF-like repeats and a fibulin-type COOH-terminal module. Aberrant accumulation of Fibulin 3 in the endoplasmic reticulum of retinal pigment epithelial cells has been shown to be associated with inherited forms of macular degeneration, but the loss of Fibulin 3 expression does not lead to macular degeneration but rather the appearance of hernias due to a reduction of elastic fibers of fascial connective tissue. Recent experiments have shown that expression of Fibulin 3 promotes tumor growth and may thus be a therapeutic target.

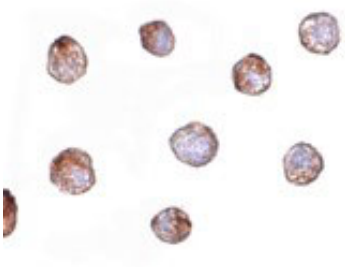
References

Kobayashi N, Kostka G, Garbe JH, et al. A comparative analysis of the fibulin protein family. Biochemical characterization, binding interactions, and tissue localization. J. Biol. Chem. 2007; 282:11805-16.
Marmorstein LY, Munier FL, Arsenijevic Y, et al. Aberrant accumulation of EFEMP1 underlies drusen formation in Malattia Leventinese and age-related macular degeneration. Proc. Natl. Acad. Sci. USA 2002; 99:13067-72.
McLaughlin PJ, Bakall B, Choi J, et al. Lack of fibulin-3 causes early aging and herniation, but not macular degeneration in mice. Hum. Mol. Genet. 2007; 16:3059-70.
Seeliger H, Camaj P, Ischenko I, et al. EFEMP1 expression promotes in vivo tumor growth in human pancreatic adenocarcinoma. Mol. Cancer Res. 2009; 7:189-98.

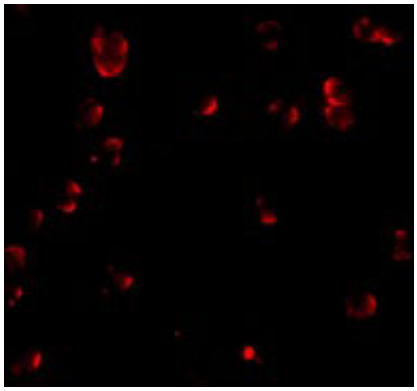
Images



Western blot analysis of Fibulin 3 in HeLa cell lysate with Fibulin 3 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunocytochemistry of Fibulin 3 in HeLa cells with Fibulin 3 antibody at 20 µg/mL.



Immunofluorescence of Fibulin 3 in HeLa cells with Fibulin 3 antibody at 20 µg/mL.

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