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EFEMP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9095a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q12805
Other Accession	O35568, Q8BPB5, Q7YQD7
Reactivity	Human, Mouse
Predicted	Monkey, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22140
Calculated MW	54641
Antigen Region	119-148

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	This EFEMP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-148 amino acids from the N-terminal region of human EFEMP1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EFEMP1 Antibody (N-term) 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

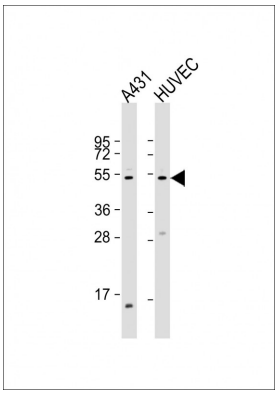
Background

EFEMP1 encodes a member of the fibulin family of extracellular matrix glycoproteins. Like all members of this family, the encoded protein contains tandemly repeated epidermal growth factor-like repeats followed by a C-terminus fibulin-type domain. This gene is upregulated in malignant gliomas and may play a role in the aggressive nature of these tumors.

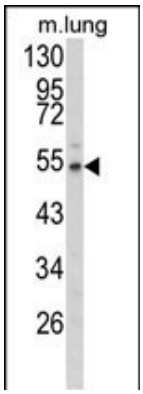
References

Okada,Y., et.al., Hum. Mol. Genet. (2010) In press
Wakabayashi,T., et.al., Biochem. Biophys. Res. Commun. 391 (1), 1116-1121 (2010)

Images

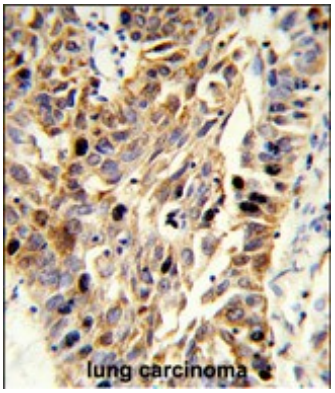


All lanes : Anti-EFEMP1 Antibody (N-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: HUVEC whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

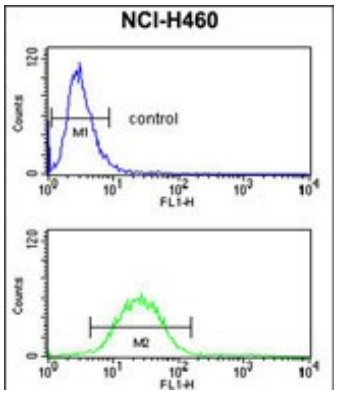


Western blot analysis of EFEMP1 Antibody (N-term) (Cat. #AP9095a) in mouse lung tissue lysates (35ug/lane). EFEMP1 (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human lung carcinoma reacted with EFEMP1 Antibody (N-term), which



was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



EFEMP1 Antibody (N-term) (Cat. #AP9095a) flow cytometry analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Fibulin-3 affects vascular endothelial function and is regulated by angiotensin II
- EFEMP1 as a Potential Biomarker for Diagnosis and Prognosis of Osteosarcoma
- Hypertensive vascular remodeling was inhibited by Xuezhikang through the regulation of Fibulin-3 and MMPs in spontaneously hypertensive rats.
- EFEMP1 promotes the migration and invasion of osteosarcoma via MMP-2 with induction by AEG-1 via NF-κB signaling pathway.
- Anti-EGFR function of EFEMP1 in glioma cells and patient prognosis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.