

## EFEMP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9095a

### Specification

# **EFEMP1 Antibody (N-term) - Product Information**

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Antigen Region FC, IHC-P, WB,E <u>O12805</u> <u>O35568</u>, <u>O8BPB5</u>, <u>O7YOD7</u> Human, Mouse Monkey, Rat Rabbit Polyclonal Rabbit IgG 119-148

## EFEMP1 Antibody (N-term) - 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 FC~~1:10~50 IHC-P~~1:50~100 WB~~1:1000 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.

### **EFEMP1** Antibody (N-term) - 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

## **EFEMP1 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

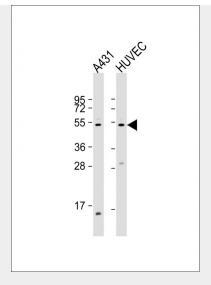
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### EFEMP1 Antibody (N-term) - Images

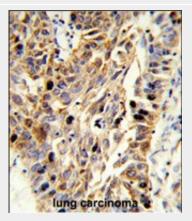
m.lung	
130 95 72	
72	
55	-4
43	
34	
26	

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.

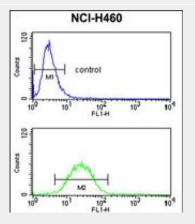




All lanes : Anti-EFEMP1 Antibody (N-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: HUVEC whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: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



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.



# EFEMP1 Antibody (N-term) - 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.

# EFEMP1 Antibody (N-term) - References

Okada, Y., et.al., Hum. Mol. Genet. (2010) In press

Wakabayashi,T., et.al., Biochem. Biophys. Res. Commun. 391 (1), 1116-1121 (2010) EFEMP1 Antibody (N-term) - Citations

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