

EFEMP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9269b

Product Information

Application WB, FC, E **Primary Accession** 095967

Other Accession Q9WVI9, **Q55058** Reactivity Human, Mouse **Predicted** Hamster Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB22604 49405 **Calculated MW** 386-414 **Antigen Region**

Additional Information

Gene ID 30008

Other Names EGF-containing fibulin-like extracellular matrix protein 2, Fibulin-4, FIBL-4,

Protein UPH1, EFEMP2, FBLN4

Target/Specificity This EFEMP2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 386-414 amino acids from the

C-terminal region of human EFEMP2.

Dilution WB~~1:1000 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 EFEMP2 Antibody (C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name EFEMP2 (HGNC:3219)

Synonyms FBLN4

Function

Plays a crucial role in elastic fiber formation in tissue, and in the formation of ultrastructural connections between elastic laminae and smooth muscle cells in the aorta, therefore participates in terminal differentiation and maturation of smooth muscle cell (SMC) and in the mechanical properties and wall integrity maintenance of the aorta (PubMed:27339457). In addition, is involved in the control of collagen fibril assembly in tissue throught proteolytic activation of LOX leading to cross- linking of collagen and elastin (By similarity). Also promotes ELN coacervation and participates in the deposition of ELN coacervates on to microfibrils but also regulates ELN cross-linking through LOX interaction (PubMed:18973305, PubMed:19570982). Moreover adheres to the cells through heparin binding in a calcium-dependent manner and regulates vascularlar smooth muscle cells proliferation through angiotensin signaling (PubMed:23782690).

Cellular Location

Secreted, extracellular space, extracellular matrix Secreted, extracellular space, extracellular matrix, basement membrane {ECO:0000250|UniProtKB:Q9WVJ9}. Note=Localizes on the microfibrils surrounding ELN cores. {ECO:0000250|UniProtKB:Q9WVJ9}

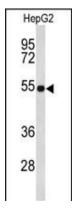
Background

EFEMP2 have been found to contain variations of the epidermal growth factor (EGF) domain and have been implicated in functions as diverse as blood coagulation, activation of complement and determination of cell fate during development. The protein contains four EGF2 domains and six calcium-binding EGF2 domains. This protein is necessary for elastic fiber formation and connective tissue development.

References

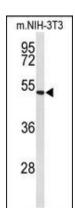
Chen,Q., et.al., Biochem. J. 423 (1), 79-89 (2009) Choudhury,R., et.al., J. Biol. Chem. 284 (36), 24553-24567 (2009) El-Hallous,E., et.al., J. Biol. Chem. 282 (12), 8935-8946 (2007)

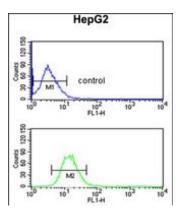
Images



Western blot analysis of EFEMP2 Antibody (C-term) (Cat. #AP9269b) in HepG2 cell line lysates (35ug/lane). EFEMP2 (arrow) was detected using the purified Pab;

Western blot analysis of EFEMP2 Antibody (C-term) (Cat. #AP9269b) in mouse NIH-3T3 cell line lysates (35ug/lane). EFEMP2 (arrow) was detected using the purified Pab.





EFEMP2 Antibody (C-term) (Cat. #AP9269b) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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