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EFEMP2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9269b

Specification

EFEMP2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O95967

EFEMP2 Antibody (C-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP9269b was selected from the C-term region of human EFEMP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EFEMP2 Antibody (C-term) Blocking Peptide - 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:<a

href="http://www.uniprot.org/citations/18973305" target="_blank">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}

EFEMP2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

EFEMP2 Antibody (C-term) Blocking Peptide - Images

EFEMP2 Antibody (C-term) Blocking Peptide - 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.

EFEMP2 Antibody (C-term) Blocking Peptide - 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)