

**EFEMP2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9269b****Specification**

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**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](/products/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:<http://www.uniprot.org/citations/27339457>). In addition, is involved in the control of collagen fibril assembly in tissue through 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:

href="http://www.uniprot.org/citations/18973305" target="\_blank">18973305</a>, PubMed:<a href="http://www.uniprot.org/citations/19570982" target="\_blank">19570982</a>). Moreover adheres to the cells through heparin binding in a calcium-dependent manner and regulates vascular smooth muscle cells proliferation through angiotensin signaling (PubMed:<a href="http://www.uniprot.org/citations/23782690" target="\_blank">23782690</a>).

**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)