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THBS1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8522a

Specification

THBS1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P07996

THBS1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 7057

Other Names
Thrombospondin-1, THBS1, TSP, TSP1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8522a was selected from the N-term region of human THBS1. 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.

THBS1 Antibody (N-term) Blocking Peptide - Protein Information

Name THBS1

Synonyms TSP, TSP1

THBS1 Antibody (N-term) Blocking Peptide - Background

THBS1 is a subunit of a disulfide-linked homotrimeric protein. This protein is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. This protein has been shown to play roles in platelet aggregation, angiogenesis,and tumorigenesis.

THBS1 Antibody (N-term) Blocking Peptide - References

Hofsteenge,J., et.al., J. Biol. Chem. 276 (9), 6485-6498 (2001)Roszmusz,E., et.al., Biochem. Biophys. Res. Commun. 296 (1), 156-160 (2002)

Function
Adhesive glycoprotein that mediates cell-to-cell and cell-to- matrix interactions. Binds heparin. May play a role in dentinogenesis and/or maintenance of dentin and dental pulp (By similarity). Ligand for CD36 mediating antiangiogenic properties. Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors (By similarity).

Cellular Location
Secreted. Cell surface. Secreted, extracellular space, extracellular matrix. Endoplasmic reticulum {ECO:0000250|UniProtKB:P35441}. Sarcoplasmic reticulum {ECO:0000250|UniProtKB:P35441}. Note=Secreted by thrombin-activated platelets and binds to the cell surface in the presence of extracellular Ca(2+) (PubMed:6777381). Incorporated into the extracellular matrix of fibroblasts (PubMed:6341993). Also detected in the endoplasmic reticulum and sarcoplasmic reticulum where it plays a role in the ER stress response (By similarity) {ECO:0000250|UniProtKB:P35441, ECO:0000269|PubMed:6341993, ECO:0000269|PubMed:6777381}

THBS1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides