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SEMA3E Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP7976b

Specification

SEMA3E Antibody (C-term) Blocking peptide - Product Information

Primary Accession P70275

SEMA3E Antibody (C-term) Blocking peptide - Additional Information

Gene ID 20349

Other Names
Semaphorin-3E, Semaphorin-H, Sema H, Sema3e, Semah, Semh

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7976b was selected from the Sema3e region of human Semaphorin 3E(Sema3e). 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.

SEMA3E Antibody (C-term) Blocking peptide - Protein Information

Name Sema3e

Synonyms Semah, Semh

SEMA3E Antibody (C-term) Blocking peptide - Background

The Semaphorins make up the largest family of axon guidance cues yet described. Semaphorins are divided into 8 classes (classes 3-7 found in vertebrates). Class 3 Semaphorins are secreted, classes 4 through 6 are transmembrane proteins, and class 7 are membrane associated via glycosylphosphatidylinositol (GPI) linkage. They are characterized structurally by a conserved ~400 amino acid sema domain. They are classically described as collapsing factors and mediators of axon repulsion, although they may also act as context-dependent chemoattractants. Semaphorins have been shown to have roles in cardiovascular development and in the regulation of immune cell antigen presentation. Receptors or receptor complexes that mediate semaphorin signaling include proteins of the Neuropilin and Plexin families.

SEMA3E Antibody (C-term) Blocking peptide - References

Christensen C.R.L.,Cancer Res. 58:1238-1244(1998).

Function
Plays an important role in signaling via the cell surface receptor PLXND1. Mediates reorganization of the actin cytoskeleton, leading to the retraction of cell projections. Promotes focal adhesion disassembly and inhibits adhesion of endothelial cells to the extracellular matrix. Regulates angiogenesis, both during embryogenesis and after birth. Can down-regulate sprouting angiogenesis. Required for normal vascular patterning during embryogenesis. Plays an important role in ensuring the specificity of synapse formation.

Cellular Location
Secreted.

Tissue Location
Detected in neurons in the thalamus. Detected in embryonic vasculature. Developing lungs, developing skeletal elements and ventral horns of the developing neural tube. Correlates positively with tumor progression.

SEMA3E Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides