

Semaphorin 5A Antibody Blocking peptide
Synthetic peptide
Catalog # BP2712c**Specification**

Semaphorin 5A Antibody Blocking peptide - Product InformationPrimary Accession [O13591](#)**Semaphorin 5A Antibody Blocking peptide - Additional Information****Gene ID** 9037**Other Names**

Semaphorin-5A, Semaphorin-F, Sema F, SEMA5A, SEMAF

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2712c](/products/AP2712c) was selected from the S106 region of human Semaphorin 5A. 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.

Semaphorin 5A Antibody Blocking peptide - Protein Information**Name** SEMA5A**Synonyms** SEMAF**Function**

Bifunctional axonal guidance cue regulated by sulfated proteoglycans; attractive effects result from interactions with heparan sulfate proteoglycans (HSPGs), while the inhibitory effects depend on interactions with chondroitin sulfate proteoglycans (CSPGs) (By similarity). Ligand for receptor PLXNB3. In glioma cells, SEMA5A stimulation of PLXNB3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDI-mediated inactivation of RAC1. May promote angiogenesis by increasing endothelial cell proliferation and migration and inhibiting apoptosis.

Cellular Location

Membrane; Single-pass type I membrane protein.

Semaphorin 5A Antibody Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Semaphorin 5A Antibody Blocking peptide - Images

Semaphorin 5A Antibody Blocking peptide - Background

Semaphorin 5A belongs to the semaphorin gene family that encodes membrane proteins containing a semaphorin domain and several thrombospondin type-1 repeats. Members of this family are involved in axonal guidance during neural development.

Semaphorin 5A Antibody Blocking peptide - References

Weiss,L.A., et.al., Nature 461 (7265), 802-808 (2009).