

**M Sema5a Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP2712a****Specification**

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**M Sema5a Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [O13591](#)  
Other Accession [Q3UPZ0](#)

**M Sema5a Antibody (N-term) 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 [AP2712a](/products/AP2712a) was selected from the N-term region of human Sema5a. 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.

**M Sema5a Antibody (N-term) 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.

### **M Sema5a Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **M Sema5a Antibody (N-term) Blocking peptide - Images**

### **M Sema5a Antibody (N-term) Blocking peptide - Background**

Members of the semaphorin protein family, such as SEMA5A, are involved in axonal guidance during neural development.

### **M Sema5a Antibody (N-term) Blocking peptide - References**

Bialecka,M., Neurosci. Lett. 399 (1-2), 121-123 (2006) Melin,M., Neuropsychobiology 54 (1), 64-69 (2006)