10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

SEMA3A Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7760c

Specification

SEMA3A Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q14563

SEMA3A Antibody (Center) Blocking Peptide - Additional Information

Gene ID 10371

Other Names
Semaphorin-3A, Semaphorin III, Sema III, SEMA3A, SEMAD

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7760c was selected from the Center region of human SEMA3A. 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.

SEMA3A Antibody (Center) Blocking Peptide - Protein Information

Name SEMA3A

Synonyms SEMAD

SEMA3A Antibody (Center) Blocking Peptide - Background

SEMA3A is a member of the semaphorin family with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer's disease.

SEMA3A Antibody (Center) Blocking Peptide - References

Narazaki,M., Blood 111 (8), 4126-4136 (2008)Tannemaat,M.R., J. Neurosci. 27 (52), 14260-14264 (2007)Appleton,B.A., EMBO J. 26 (23), 4902-4912 (2007)

Function
Involved in the development of the olfactory system and in neuronal control of puberty. Induces the collapse and paralysis of neuronal growth cones. Could serve as a ligand that guides specific growth cones by a motility-inhibiting mechanism. Binds to the complex neuropilin-1/plexin-1.

Cellular Location
Secreted.

Tissue Location
Expressed in the dorsal root ganglia.

SEMA3A Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides