

Semaphorin-3A (Central Region) Peptide | SEMA3A peptide

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CATALOG #
AAA71543

APPLICATIONS
ELISA

PRODUCT SYNONYMS

Semaphorin-3A (Central Region) Peptide; SEMA3A peptide

PRODUCT SPECIFICATIONS

Specificity	The peptide is specifically recognized by anti-Sema3A (Central region) antibody (MBS472057) in ELISA, and has been shown to block the reactivity of MBS472057 during Western blot. In addition, the peptide is recommended for use in blocking MBS472057 reactivity in immunocytochemistry.
Form/Format	Blocking Peptide is supplied in 50ul phosphate-buffered saline and 0.05% sodium azide.
Sequence Length	771
Applicable Applications for SEMA3A peptide	Blocking, ELISA
Peptide Sequence	Semaphorin 3A synthetic peptide corresponds to amino acids in the central region of human Sema3A. This sequence is highly conserved in rat and mouse Sema3A, and has low homology to other semaphorin family members.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

ADDITIONAL INFORMATION

Related Product Information for SEMA3A peptide	One family of inhibitory axon guidance molecules is the semaphorins. The semaphorins include secreted, transmembrane, and GPIanchored extracellular molecules that are involved in regulating axon guidance by inhibiting axons from growing toward incorrect targets. Semaphorin 3A (Sema3A) may play a particularly interesting role in limiting axon regeneration since it is expressed in meningeal fibroblasts that invade the injured spinal cord and surround the glial scar. In addition, the Sema3A co-receptors, Neuropilin -1 and Plexin-A1, are expressed on axons that regenerate up to the injured region, but do not cross this Sema3A-containing region. Thus, Sema3A and its co-receptors may have important roles in regulating axon guidance during neuronal development and after neuronal injury.
References	• Kolodokin, A.L. et al. (1993) Cell 75:1389. • Luo, Y. et al. (1993) Cell 75:217. • Pasterkamp, R.J. & Verhaagen, J. (2001) Brain Res Rev 35:36.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174673
NCBI GeneID	10371
NCBI Accession #	NP_006071.1
NCBI GenBank Nucleotide #	NM_006080.2
UniProt Accession #	Q14563 ; Q75MQ2 ; Q86UJ2
NCBI Official Full Name	semaphorin-3A
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A

NCBI Official Symbol	SEMA3A
NCBI Official Synonym Symbols	SemD; SEMA1; SEMAD; SEMAL; coll-1; Hsema-I; SEMAIII; Hsema-III; MGC133243
NCBI Protein Information	semaphorin-3A; collapsin 1; semaphorin D; semaphorin L; semaphorin III; OTTHUMP00000161379; OTTHUMP00000208884
UniProt Protein Name	Semaphorin-3A
UniProt Gene Name	SEMA3A
UniProt Synonym Gene Names	SEMAD
UniProt Entry Name	SEM3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/peptide/semaphorin-3a-central-region-peptide/71543>