

Rabbit Semaphorin-3A (Central Region) Polyclonal Antibody | anti-SEMA3A antibody

Semaphorin-3A (Central Region)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71531	Rabbit	Human, Rat, Mouse	Immunocytochemistry, Immunohistochemistry, Western Blot, ELISA

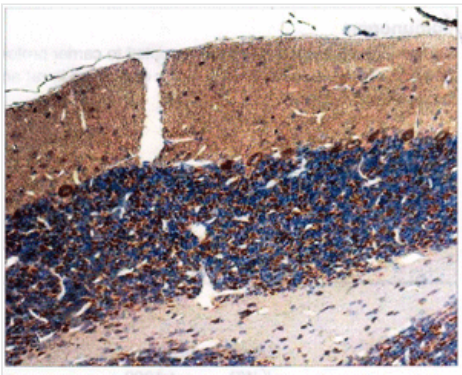
PRODUCT SYNONYMS

Semaphorin-3A (Central Region); Polyclonal Antibody; Sema3A; Semaphorin III; anti-SEMA3A antibody

PRODUCT SPECIFICATIONS

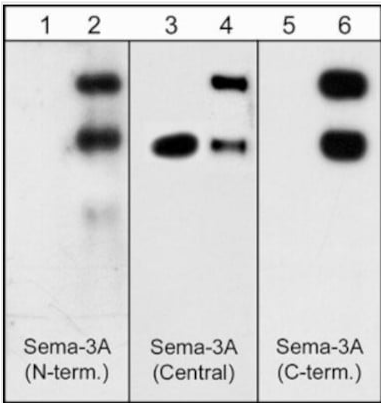
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	The antibody detects a 95kDa* protein corresponding to the apparent molecular mass of Sema3A on SDS-PAGE immunoblots of human recombinant Sema3A and neonatal rat brain lysates.
Purity/Purification	Affinity Purified
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100 ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Sequence Length	771
Applicable Applications for anti-SEMA3A antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Semaphorin 3A synthetic peptide (coupled to carrier protein) corresponding to amino acids in the central region of human Sema3A. The sequence used is highly conserved in rat and mouse Sema3A, and has low homology to other semaphorin family members.
Specificity Note	All molecular weights (MW) are confirmed by comparison to MW standards and to western blot mobilities of known proteins with similar MW. "Native" western blot utilizes non-reducing sample buffer (no mercaptoethanol or SDS), normal SDS-PAGE gel electrophoresis, and no methanol in transfer buffers.
Preparation and Storage	Store at -20°C. Stable for 1 year.

IMAGES



Application Data

Formalin fixed, citric acid treated paraffin sections of adult Rat cerebellum. Sections were probed with anti-Sema3A (AAA71531) then anti-RabbitHRP before detection using DAB. (Images provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).



Application Data

Western blots of neonatal rat brain (lanes 1, 3 & 5) and human recombinant Sema3A/Fc chimera (95/125 kDa) (lanes 2, 4 & 6). Blots were probed with anti-Sema3A (lanes 1 & 2), anti-Sema3A (AAA71531) (lanes 3 & 4) and anti-Sema3A (lane 5 & 6). The antibodies recognize both the 95 kDa and 125 kDa forms of the recombinant Sema3A.

ADDITIONAL INFORMATION

Related Product Information for anti-SEMA3A antibody	One family of inhibitory axon guidance molecules is the semaphorins. The semaphorins include secreted, transmembrane, and GPI-anchored 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 Sema3Acontaining 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. • Tang, X-Q. et al. (2007) J. Neurosci. 27(22):6068 (WB: R. E14 spinal cord)

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

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/polyclonal/semaphorin-3a-central-region-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/71531>