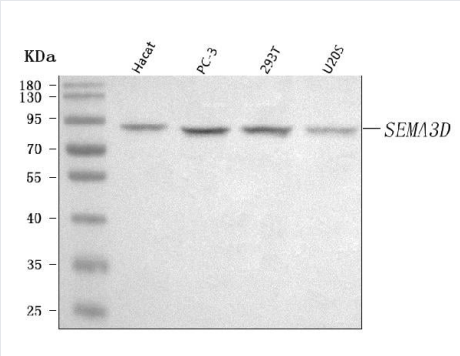
SEMA3D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SEMA3D, Polyclonal Antibody
Full Product Name	Anti-SEMA3D Antibody Picoband
Product Gene Name	anti-SEMA3D antibody
Product Synonym Names	Nck-associated protein 1; Nck-associated protein 1; NAP 1; Membrane-associated protein HEM-2; p125Nap1; NCKAP1; HEM2, KIAA0587, NAP1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues examined except peripheral blood leukocytes, with highest expression in brain, heart, and skeletal muscle.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	89,651 Da
3D Structure	ModBase 3D Structure for O95025
Immunogen	E coli-derived human SEMA3D recombinant protein (Position: D88-H697).
Subcellular Localization	Cell membrane, Single-pass membrane protein, Cytoplasmic side, Cell projection, lamellipodium membrane, Single-pass membrane protein, Cytoplasmic side, At the interface between the lamellipodial actin meshwork and the membrane.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1.
Product Categories/Family for anti-SEMA3D antibody	Primary Antibodies; Neurogenesis; Neurology Process; Neuroscience; NFKB Pathway; Nuclear Signaling; Signal Transduction; Signaling Pathway
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SEMA3D antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SEMA3D antibody	WB: 0.25-0.5ug/ml, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-SEMA3D antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product References and Citations for anti-SEMA3D antibody	1. Jin, Z., Chau, M. D., Bao, Z.-Z. Sema3D, Sema3F, and Sema5A are expressed in overlapping and distinct patterns in chick embryonic heart. Dev. Dyn. 235: 163-169, 2006. 2. Liu, Y., Halloran, M. C. Central and peripheral axon branches from one neuron are guided differentially by semaphorin3D and transient axonal glycoprotein-1. J. Neurosci. 25: 10556-10563, 2005.
Other Notes	Small volumes of anti-SEMA3D antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SEMA3D purchase	MBS1759002 is an antibody targeting SEMA3D. Also known as Anti-SEMA3D Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SEMA3D antibody
Figure 1. Western blot analysis of SEMA3D using anti-SEMA3D antibody (MBS1759002).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hacat whole cell lysates,Lane 2: human PC-3 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human U20S whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SEMA3D antigen affinity purified polyclonal antibody (#MBS1759002) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for SEMA3D at approximately 90 kDa. The expected band size for SEMA3D is at 88,90 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEMA3D. It may not necessarily be applicable to this product.

NCBI GI #	41406086
NCBI GeneID	223117
NCBI Accession #	NP_689967.2
UniProt Primary Accession #	O95025
UniProt Secondary Accession #	Q6UW77; Q8NCQ1; A6NK46
UniProt Related Accession #	O95025
GenBank Nucleotide #	NM_152754.2
NCBI Official Full Name	semaphorin-3D
NCBI Official Synonym Full Names	semaphorin 3D
NCBI Official Symbol	SEMA3D
NCBI Official Synonym Symbols	coll-2; Sema-Z2
UniProt Protein Name	Semaphorin-3D

Protein Family	Semaphorin
UniProt Gene Name	SEMA3D
NCBI Protein Information	semaphorin-3D
NCBI Summary for SEMA3D	This gene encodes a member of the semaphorin III family of secreted signaling proteins that are involved in axon guidance during neuronal development. The encoded protein contains an N-terminal Sema domain, an immunoglobulin like domain and a C-terminal basic domain. The protein encoded by this gene binds neuropilin and plays an important role in cardiovascular development. [provided by RefSeq, Aug 2016]
UniProt Comments for SEMA3D	Induces the collapse and paralysis of neuronal growth cones. Could potentially act as repulsive cues toward specific neuronal populations. Binds to neuropilin ().
Research Articles on SEMA3D	**1.** Low SEMA3D expression is associated with colorectal cancer.
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