

Mouse Semaphorin-4D Monoclonal Antibody | anti-Sema4D antibody

Semaphorin-4D (C-terminal region) Antibody

CATALOG # AAA71702	HOST Mouse	REACTIVITY Human, Rat, Mouse	APPLICATIONS Immunocytochemistry, ELISA, Western Blot
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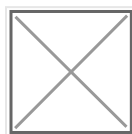
PRODUCT SYNONYMS

Semaphorin-4D; Monoclonal Antibody; Semaphorin-4D (C-terminal region) Antibody; Semaphorin-4D (C-terminal region); anti-Sema4D antibody

PRODUCT SPECIFICATIONS

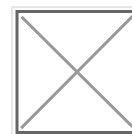
Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M188
Specificity	This antibody detects a 150kDa* band on SDS-PAGE immunoblots of adult mouse brain.
Form/Format	Mouse monoclonal, protein G purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-Sema4D antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone (M188) was generated from a recombinant protein corresponding to the C-terminal region of human Semaphorin-4D.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling in rat PC12 cells differentiated with NGF. The cells were probed with rabbit polyclonal Plexin B1 (PP1841) and mouse monoclonal Sema-4D (SM1881) antibodies, then the antibodies were detected using appropriate secondary antibody conjugated to DyLight 594.



WB (Western Blot)

Western blot image of mouse brain lysate. The blot was probed with mouse monoclonal Semaphorin-4D antibody (SM1881) at 1:250 (lane 1), 1:500 (lane 2), and 1:1000 (lane 3).

ADDITIONAL INFORMATION

Related Product Information for anti-Sema4D antibody

Plexins are a family of large integral membrane proteins that complex with neuropilins to form semaphorin co-receptors. The extracellular region of plexins contains a semaphorin domain, multiple glycine-rich motifs, and MET-related sequences. The cytoplasmic region contains a Sex/Plexin domain and putative tyrosine phosphorylation sites that mediate signal transduction after activation. In addition, Plexin B1 and B2 contain cleavage sites for subtilisin-like proprotein convertases. These cleavage sites may be important for regulating assembly of heterodimeric receptors or release of the extracellular domain. Plexin-B1 is expressed as a 300kDa precursor protein that can be cleaved into a 200kDa a-subunit and 100kDa b-subunit. This plexin is the receptor for the class IV semaphorin, Sema-4D. Sema-4D activation of Plexin B1 recruits and activates c-Met, which can promote cell survival, migration, and angiogenesis.

References	Basile, J.R. et al. (2006) PNAS 103(24):9017.Artigiani, S. et al. (2003) J Biol. Chem. 278(12):10094.Tamagnone, L. et al. (1999) Cell 99:71.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	214010218
NCBI GeneID	10507
NCBI Accession #	NP_006369.3
NCBI GenBank Nucleotide #	NM_006378.3
UniProt Accession #	Q92854; Q7Z5S4; Q8N8B0; B2RPM6
Molecular Weight	96,150 Da
NCBI Official Full Name	semaphorin-4D isoform 1
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D
NCBI Official Symbol	SEMA4D
NCBI Official Synonym Symbols	CD100; SEMAJ; coll-4; C9orf164; M-sema-G
NCBI Protein Information	semaphorin-4D; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D
UniProt Protein Name	Semaphorin-4D
UniProt Gene Name	SEMA4D
UniProt Synonym Gene Names	C9orf164; CD100; SEMAJ
UniProt Entry Name	SEM4D_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/monoclonal/semaphorin-4d-antibody-clone-m188-immunocytochemistry-western-blot-elisa/71702>