

Rabbit M Sema5a Polyclonal Antibody | anti-SEMA5A antibody

M Sema5a Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286277	Rabbit	Human, mouse (Predicted Reactivity: Rat)	ELISA, Western Blot

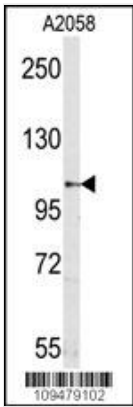
PRODUCT SYNONYMS

M Sema5a; Polyclonal Antibody; M Sema5a Antibody (N-term); Semaphorin-5A; Semaphorin-F; Sema F; SEMA5A; SEMAF; anti-SEMA5A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Mouse Sema5a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of mouse Sema5a.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	1074
Applicable Applications for anti-SEMA5A antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Bifunctional axonal guidance cue regulated by sulfated proteoglycans; attractive effects result from interactions with heparan sulfate proteoglycans (HSPGs), while the inhibitory effects depend on interactions with chondroitin sulfate proteoglycans (CSPGs) (By similarity). Ligand for receptor PLXNB3. In glioma cells, SEMA5A stimulation of PLXNB3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDIA-mediated inactivation of RAC1. May promote angiogenesis by increasing endothelial cell proliferation and migration and inhibiting apoptosis.
Cellular Location	Membrane; Single-pass type I membrane protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of mouse anti-Sema5a (N-term) Pab in A2058 cell line lysates (35ug/lane). Sema5a(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-SEMA5A antibody	Members of the semaphorin protein family, such as SEMA5A, are involved in axonal guidance during neural development.
Product Categories/Family for anti-SEMA5A antibody	Neuroscience
References	Bialecka,M., Neurosci. Lett. 399 (1-2), 121-123 (2006) Melin,M., Neuropsychobiology 54 (1), 64-69 (2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	147904700
NCBI GeneID	9037
NCBI Accession #	NP_003957.2
NCBI GenBank Nucleotide #	NM_003966.2
UniProt Accession #	Q13591; O60408; Q1RLL9; D3DTC6
Molecular Weight	120615
NCBI Official Full Name	semaphorin-5A
NCBI Official Synonym Full Names	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A
NCBI Official Symbol	SEMA5A
NCBI Official Synonym Symbols	semF; SEMAF
NCBI Protein Information	semaphorin-5A
UniProt Protein Name	Semaphorin-5A
UniProt Gene Name	SEMA5A
UniProt Synonym Gene Names	SEMAF; Sema F
UniProt Entry Name	SEM5A_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.

