

Semaphorin-4A/SEMA4A Recombinant Protein | SEMA4A recombinant protein

Recombinant Mouse Semaphorin-4A/SEMA4A Protein (C-6His)

CATALOG #
AAA174040

HOST
Human Cells

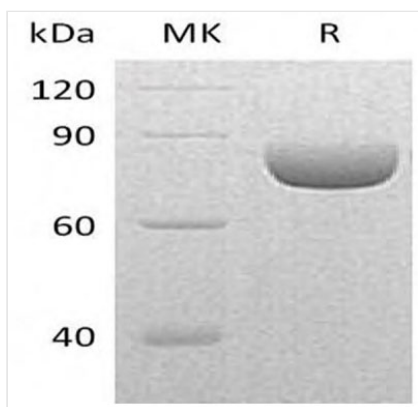
PRODUCT SYNONYMS

Semaphorin-4A/SEMA4A; Recombinant Mouse Semaphorin-4A/SEMA4A Protein (C-6His); Semaphorin-4A; Semaphorin-B; Sema B; Sema4a; Semab; SemB; SEMA4A recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Sequence Positions	Thr33-His682
Sequence Length	760
Species	Mouse
Endotoxin	<1.0 EU per mug as determined by LAL test.
Fusion Tag	C-6His
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(50ul) be added to the vial to prepare a stock solution of 0.2mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at < -20 to 80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. This product is provided as lyophilized powder which is shipped in blue ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SEMA4A recombinant protein	Semaphorin-4A (SEMA4A) belongs to the semaphorin family which contains a Ig-like C2-type domain, a PSI domain and a Sema domain. SEMA4A is expressed from day 10 in the embryo, and low levels are found between days 10-12. SEMA4A is a cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in cell-cell signaling. It plays a role in priming antigen-specific T-cells, promotes differentiation of Th1 T-helper cells, and thereby contributes to adaptive immunity. SEMA4A promotes phosphorylation of TIMD2, inhibits angiogenesis, and promotes axon growth cone collapse, Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	254553354
NCBI GeneID	20351
NCBI Accession #	NP_001156961.1
NCBI GenBank Nucleotide #	NM_001163489.1
UniProt Accession #	Q62178; D3Z5L2
Molecular Weight	Molecular Mass: 72.7 kDa Actual Protein Molecular Mass: 70-90 kDa
NCBI Official Full Name	semaphorin-4A
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A
NCBI Official Symbol	Sema4a
NCBI Official Synonym Symbols	SemB; Semab; AI132332
NCBI Protein Information	semaphorin-4A
UniProt Protein Name	Semaphorin-4A
UniProt Gene Name	Sema4a
UniProt Synonym Gene Names	Semab; SemB; Sema B

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.