

Product datasheet for TP517872

Sema4a (NM_001163491) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A (Sema4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR217872 representing NM_001163491 Red =Cloning site Green =Tags(s)

MALPSLGQDSWSLLRVFFFQLFLLPSLPPASGTGGQGPMRVKYHAGDGHRALSFFQQKGLRDFDTLLS
DDGNTLYVGAREAVLALNIQNP GIPRLKNMIPWPASERKKTECAFKKKSNETQCFNFIRVLVSYNATHLY
ACGTFAFSPACTFIELQDSLLLPILDKVM DKGKQSPFDPVHKHTAVLVDGMLYSGTMNNFLGSEPILMR
TLGSQPVLKTDIFLRWLHADASFVAAIPSTQV VYFFFEETASEFDFFEELYISRVAQVCKNDVGGEKLLQ
KKWTTFLKAQLLCAQPGQLPFNIIRHAVLLPADSPSVSRIYAVFTSQWQVGGTRSSAVCAFSLTDIERVF
KGKYKELNKETSRTTYRGSEVSPRPGSCSMG PSSDKALTFMKDHFLMDEHVVGTPLLVKSGVEYTRLAV
ESARGLDGSSHVVMYLGSTGSLHKAVVPQDSSAYLVEEIQ LSPDSEPVRLNLQ LAPAQGAVFAGFSGGIW
RVPRANCSVYESCVCVLARDPHCAWDPE SRLCSLLSGSTKPKWQDMERGNPEWVCTRGP MARSRRQSP
PQLIKEVLTVPNSILELPCPHLSALASYHWSHGR AKISEASATVYNGSLLLLPQDGVGGLYQCVATENGY
SYPVWSYWDSQDQPLALDPELAGVPRERVQVPLTRVGGGASMAAQRSYWP HFLIVTVLLAIVLLGVLT
LLASPLGALRARGKVQGC GMLPPREKAPLSRDQHLQPSKDHRTSASD VADANNHLGAEVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	83.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001156963
Locus ID:	20351
UniProt ID:	Q62178
RefSeq Size:	3084
Cytogenetics:	3 F1
RefSeq ORF:	2280
Synonyms:	AI132332; Semab; SemB
Summary:	Cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in cell-cell signaling (PubMed:20043131, PubMed:17318185). Regulates glutamatergic and GABAergic synapse development (PubMed:29981480). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner and promotes the development of excitatory synapses in a PLXNB2-dependent manner (PubMed:29981480). Plays a role in priming antigen-specific T-cells, promotes differentiation of Th1 T-helper cells, and thereby contributes to adaptive immunity (PubMed:15780988). Promotes phosphorylation of TIMD2 (PubMed:12374982). Inhibits angiogenesis (PubMed:17318185). Promotes axon growth cone collapse (PubMed:20043131). Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons (PubMed:20043131).[UniProtKB/Swiss-Prot Function]