

Recombinant Full Length Human SEMA4A Protein, Flag-tagged

Cat. No. SEMA4A-594H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SEMA4A protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-761 a.a.
Description	This gene encodes a member of the semaphorin family of soluble and transmembrane proteins. Semaphorins are involved in numerous functions, including axon guidance, morphogenesis, carcinogenesis, and immunomodulation. The encoded protein is a single-pass type I membrane protein containing an immunoglobulin-like C2-type domain, a PSI domain and a sema domain. It inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. It is an activator of T-cell-mediated immunity and suppresses vascular endothelial growth factor (VEGF)-mediated endothelial cell migration and proliferation in vitro and angiogenesis in vivo. Mutations in this gene are associated with retinal degenerative diseases including retinitis pigmentosa type 35 (RP35) and cone-rod dystrophy type 10 (CORD10). Multiple alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Sep 2010].
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

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Molecular Mass	83.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	semaphorin 4A[Homo sapiens]
Official Symbol	SEMA4A
Synonyms	CORD10; RP35; SEMAB; SEMB
Gene ID	64218
mRNA Refseq	NM_001193300.1
Protein Refseq	NP_001180229.1
MIM	607292
UniProt ID	Q9H3S1

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