

Recombinant Human SEMA4A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SEMA4A-1573H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SEMA4A MS Standard C13 and N15-labeled recombinant protein (NP_071762) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	83.6 kDa
AA Sequence	MALPALGLDPWSLLGLFLFQLLQLLLPTTTAGGGGQGPMPRVRYAYAGDERRALSFF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HQKGLQDFDTLLSGDGNTLYVGAREAILALDIQDPGVPRLKNMIPWPASDRKKSEC
 AFKKKSNETQCFNFIRVLVSYNVTHLYTCGTFAFSPACTFIELQDSYLLPISEDKVME
 GKGQSPFDPAHKHTAVLVDGMLYSGTMNNFLGSEPILMRTLGSQPVLKTDNFLRWL
 HHDA SFVAAIPSTQVVYFFFEETASEFDFFERLHTSRVARVCKNDVGGEKLLQKKWT
 TFLKAQLLCTQPGQLPFNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAF
 SLLDIERVFKGKYKELNKETSRWTTYRGPETNPRPGSCSVGPSSDKALTFMKDHFL
 MDEQVVGTPLLVKSGVEYTRLAVETAQGLDGHSHLVMYLGTTTGS LHKAVVSGDSS
 AHLVEEIQLFPDPEPVRNLQLAPTQGAVFVGFSGGVWRVPRANCSVYESCVDCVLA
 RDPHCAWDPE SRTCCLLSAPNLNSWKQDMERGNPEWACASGPMSRSLRPQSRP
 QIIKEVLAVPNSILELPCPHLSALASYYSWGHPAAVPEASSTVYNGSLLLIVQDGVGG
 LYQCWATENGFSYPVISYWVDSQDQTLALDPELAGIPREHVKVPLTRVSGGAALAA
 QQSYWPHFVTVTVLFALVLSGALIILVASPLRALRARGKVQGCETLRPGEKAPLSRE
 QHLQSPKECRTSASDV DADNNCLGTEVATRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SEMA4A semaphorin 4A [Homo sapiens (human)]

Official Symbol SEMA4A

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Synonyms	SEMA4A; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A; SEMAB; semaphorin-4A; FLJ12287; SemB; sema B; semaphorin-B; RP35; SEMB; CORD10; RP11-54H19.2;
Gene ID	64218
mRNA Refseq	NM_022367
Protein Refseq	NP_071762
MIM	607292
UniProt ID	Q9H3S1
SDS-PAGE	