

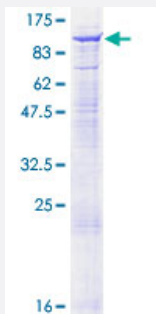
Full-Length

SEMA4A (Human) Recombinant Protein (P01)

Catalog # H00064218-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SEMA4A full-length ORF (NP_071762.2, 1 a.a. - 761 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALPALGLDPWSLLGLFLFQLLQLLLPTTTAGGGGQGMPRVRYAGDERRALSFFHQKGLQDF
DTLLSGDGNTLYVGAREAILALDIQDPGVPRKLNMPWPASDRKKSECAFKKKSNETQCFNFIRV
LVSYNVTHLYTCGTFASFPACTFIELQDSYLLPISEDKVMEGKGQSPFDPAHKHTAVLVDGMLYS
TMNNFLGSEPILMRTLGSQPVLKTDNFLRWLHHDASFVAAIPSTQVVYFFFEETASEFDDFERLHT
SRVARVCKNDVGGKELLQKKWTTFLKAQLLCTQPGQLPFNVIRHAVLLPADSPTAPHYAVFTSQ
WQVGGTRSSAVCAFSLLDIERVFKGKYKELNKETSRWTTYRGPETNPRPGSCSVGPSSDKALTF
MKDHFLMDEQVVGTPLLVKSGVEYTRLAVETAQGLDGHSHLVMYLGTTTGS�HKAVVSGDSSAH
LVEEIQLFDPPEPVRNLQLAPTQGAFFVGFSGGVWRVPRANCSVYESCVDCVLARDPHCAWDP
ESRTCCLLSAPNLNSWKQDMERGNPEWACASGPMRSRLRPQSRPQIIEVLAVPNSILELPCPH
LSALASYWWSHGPAAVPEASSTVYNGSLLLVDGQVGGGLYQCWATENGFSYPVISYWVDSQDQTL
ALDPELAGIPREHVKVPLTRVSGGAALAAQQSYWPHFVTVTVLFAVLVSGALILVASPLRALRAR
GKVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVDADNNCLGTEVA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

110

Interspecies Antigen Sequence

Mouse (83); Rat (83)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SEMA4A

Entrez GeneID	64218
GeneBank Accession#	NM_022367.2
Protein Accession#	NP_071762.2
Gene Name	SEMA4A
Gene Alias	CORD10, FLJ12287, RP35, SEMAB, SEMB
Gene Description	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A
Omim ID	607292 610282 610283
Gene Ontology	Hyperlink
Gene Summary	SEMA4A is a member of the semaphorin family of soluble and transmembrane proteins. Semaphorins are involved in guidance of axonal migration during neuronal development and in immune responses.[supplied by OMIM]

Other Designations

OTTHUMP00000015916|OTTHUMP00000015917|OTTHUMP00000015918|sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4A|semaphorin B

Publication Reference

- [Semaphorin 4A Stabilizes Human Regulatory T Cell Phenotype via Plexin B1.](#)

Chapoval SP, Hritzo M, Qi X, Tamagnone L, Golding A, Keegan AD.

ImmunoHorizons 2019 Feb; 3(2):71.

Application: Func, Human, HuT78, HuT102 cells

- [Expression of Semaphorin 4A and its potential role in rheumatoid arthritis.](#)

Wang L, Song G, Zheng Y, Tan W, Pan J, Zhao Y, Chang X.

Arthritis Research & Therapy 2015 Aug; 17:227.

Application: Func, Human, Synovial fibroblasts of rheumatoid arthritis

- [Neuroimmune semaphorin 4A as a drug and drug target for asthma.](#)

Mogie G, Shanks K, Nkyimbeng-Takwi EH, Smith E, Davila E, Lipsky MM, Detolla LJ, Keegan AD, Chapoval SP.

International Immunopharmacology 2013 Nov; 17(3):568.

Application: Injection, Recombinant protein

Pathway

- [Axon guidance](#)

Disease

- [Retinal Diseases](#)