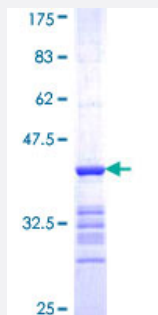


SEMA4G (Human) Recombinant Protein (Q01)

Catalog # H00057715-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SEMA4G partial ORF (NP_060363, 24 a.a. - 115 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RRPSRELDATPRMTIPYEELSGTRHFKGQAQNYSTLLLEEASARLLVGARGALFSLSANDIGDGAH KEIHWEASPEMQSKCHQKGKNNQTEC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.86
Interspecies Antigen Sequence	Mouse (33); Rat (33)
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 — SEMA4G

Entrez GeneID	57715
GeneBank Accession#	NM_017893
Protein Accession#	NP_060363
Gene Name	SEMA4G
Gene Alias	FLJ20590, KIAA1619, MGC102867
Gene Description	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G
Gene Ontology	Hyperlink
Gene Summary	Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. This gene encodes a class 4 semaphorin. This gene and the gene for mitochondrial ribosomal protein L43 overlap at map location 10q24.31 and are transcribed in opposite directions. [provided by RefSeq]
Other Designations	OTTHUMP00000020312 semaphorin 4G

Pathway

- [Axon guidance](#)

Disease

- [Alzheimer Disease](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Neoplasms](#)