

Human Semaphorin 4A ELISA Kit | SEMA4A elisa kit

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CATALOG #
AAA266528

REACTIVITY
Human

PRODUCT SYNONYMS

Semaphorin 4A; Human Semaphorin 4A ELISA Kit; SEMA4A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	sandwich
Samples	cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<50pg/ml
Detection Target	Semaphorin 4A
Immunogen Sequence	369
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)

ADDITIONAL INFORMATION

Related Product Information for SEMA4A elisa kit

This Human Semaphorin 4A ELISA Kit is intended for quantitative detection of human SEMA4A in cell culture supernates, serum and plasma (heparin, EDTA, citrate). Strip well format. Reagents for up to 96 tests.

This human SEMA4A ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for SEMA4A has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: G33-H683) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SEMA4A is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human SEMA4A amount of sample captured in plate.

The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. Expression system for standard: Semaphorin-4A is a protein that in humans is encoded by the SEMA4A gene. This gene is mapped to 1q22. SEMA4A 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.

NCBI AND UNIPROT INFORMATION

NCBI GI # [300863072](#)

NCBI GeneID	64218
NCBI Accession #	NP_001180229.1
NCBI GenBank Nucleotide #	NM_001193300.1
UniProt Accession #	Q9H3S1; Q5TCI5; Q5TCJ6; Q8WUA9; B2RDH8; B3KR76
Molecular Weight	83,574 Da
NCBI Official Full Name	semaphorin-4A isoform 1
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A
NCBI Official Symbol	SEMA4A
NCBI Official Synonym Symbols	RP35; SEMB; SEMAB; CORD10; RP11-54H19.2
NCBI Protein Information	semaphorin-4A; sema B; semaphorin-B
UniProt Protein Name	Semaphorin-4A
UniProt Gene Name	SEMA4A
UniProt Synonym Gene Names	SEMAB; SEMB; Sema B
UniProt Entry Name	SEM4A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/semaphorin-4a/266528>