

Human Semaphorin-4A (SEMA4A) ELISA Kit | SEMA4A elisa kit

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CATALOG #
AAA330921

REACTIVITY
Human

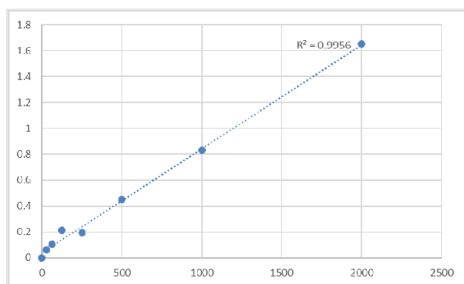
PRODUCT SYNONYMS

Semaphorin-4A (SEMA4A); Human Semaphorin-4A (SEMA4A) ELISA Kit; SEMA4A; RP11-54H19.2; CORD10; FLJ12287; RP35; SEMAB; SEMB; OTTHUMP00000015917; OTTHUMP00000015918; sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; 4A; semaphori; SEMA4A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Semaphorin-4A (SEMA4A) ELISA Kit has high sensitivity and excellent specificity for detection of Human SEMA4A. No significant cross-reactivity or interference between Human SEMA4A and analogues was observed.
Sequence Length	761
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Semaphorin-4A (SEMA4A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SEMA4A elisa kit	Description: This Human Semaphorin-4A (SEMA4A) ELISA Kit employs a two-site sandwich ELISA to quantitate SEMA4A in samples. An antibody specific for SEMA4A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SEMA4A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA4A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SEMA4A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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. Mice treated with Sema4a had enhanced priming of antigen-specific T cells secreting both IL4 and gamma-interferon (IFNG). Treatment of mice with anti-Sema4a early after immunization with myelin oligodendrocyte glycoprotein suppressed the development of experimental autoimmune encephalomyelitis. In these mice, infiltration of mononuclear inflammatory cells was ablated by inhibition of the generation of antigen-specific T cells by anti-Sema4a. Expression cloning determined that the high-affinity receptor for Sema4a is Tim2. Sema4a stimulation of cells expressing Tim2 induced tyrosine phosphorylation of Tim2 but not of Tim3.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	300863072
NCBI GeneID	64218
NCBI Accession #	NP_001180229.1
NCBI GenBank Nucleotide #	NP_001180229.1
UniProt Accession #	Q9H3S1
NCBI Official Full Name	semaphorin-4A isoform 1
NCBI Official Synonym Full Names	semaphorin 4A
NCBI Official Symbol	SEMA4A
NCBI Official Synonym Symbols	RP35; SEMB; SEMAB; CORD10
NCBI Protein Information	semaphorin-4A
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.