

## Human Semaphorin-4A (SEMA4A) ELISA Kit

Catalog No: #EK7396



Package Size: #EK7396-1 48T #EK7396-2 96T

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## Description

Product Name	Human Semaphorin-4A (SEMA4A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-54H19.2; CORD10; FLJ12287; RP35; SEMAB; SEMB; OTTHUMP00000015917 OTTHUMP00000015918 sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; 4A semaphori
Accession No.	Q9H3S1
Uniprot	Q9H3S1
GeneID	64218;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:13.3 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle:This assay 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.

**Product Overview:**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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Note: This product is for in vitro research use only