Mouse Semaphorin-4D (SEMA4D) ELISA Kit

Catalog No: #EK7394

Package Size: #EK7394-1 48T #EK7394-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Semaphorin-4D (SEMA4D) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	XXyac-YM68G7.1; C9orf164; CD100; FLJ33485; FLJ34282; FLJ39737; FLJ46484; M-sema-G; MGC169138; MGC169141; SEMAJ; coll-4; OTTHUMP00000021622|OTTHUMP00000208950|OTTHUMP00000208951|OTTHUMP00000208957|se
Accession No.	O09126
Uniprot	O09126
GeneID	20354;
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:0.78-50 ng/mL

Sensitivity:0.30 ng/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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SEMA4D in samples. An antibody specific for SEMA4D has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySEMA4D present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA4D 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 SEMA4D bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:CD100 was first identified as a cell surface protein of resting T cells; previous studies had shown that it was involved in lymphocyte activation. Hall et al. (1996) cloned CD100 from a cDNA library of phytohemagglutinin-activated human T cells. Sequence analysis showed that CD100 encodes an 863-amino acid polypeptide containing a secretory signal sequence, a single transmembrane domain, an immunoglobulin (Ig)-like domain, and a conserved 500-amino acid sema domain. Thus, Hall et al. (1996) stated that CD100 is a member of the semaphorin family and the first semaphorin believed to be involved in the immune system. See SEMA3F and SEMA3B. Northern blot analysis revealed that CD100 is expressed primarily as a 4.5-kb message in a variety of tissues, both hematopoietic and nonhematopoietic.

Note: This product is for in vitro research use only