

Human Semaphorin-4B (SEMA4B) ELISA Kit

Catalog No: #EK7395



Package Size: #EK7395-1 48T #EK7395-2 96T

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Description

Product Name	Human Semaphorin-4B (SEMA4B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA1745; MGC131831; SEMAC; SemC; sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; 4B semaphorin 4B
Accession No.	Q9NPR2
Uniprot	Q9NPR2
GenID	10509;
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:0.156-10 ng/mL

Sensitivity:0.071 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 SEMA4B in samples. An antibody specific for SEMA4B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySEMA4B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA4B 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 SEMA4B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Semaphorin-4B is a protein encoded by the SEMA4B gene. Members of the collapsin/semaphorin gene family have been proposed to act as growth cone guidance signals in vertebrates and invertebrates. To identify candidate molecules involved in axonal pathfinding during mouse embryogenesis, isolated cDNAs encoding five new members of the semaphorin family (Sem A-Sem E). The murine semaphorin genes are differentially expressed in mesoderm and neuroectoderm before and during the time when axons select their pathways in the embryo. In explant cultures, recombinant Sem D/collapsin converts a matrix permissive for axonal growth into one that is inhibitory for neurites of peripheral ganglia. Semaphorins are a diverse family of molecules that may provide local signals to specify territories nonaccessible for growing axons.

Note: This product is for in vitro research use only