

## Human Semaphorin-5A (SEMA5A) ELISA Kit

Catalog No: #EK11376



Package Size: #EK11376-1 48T #EK11376-2 96T

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## Description

Product Name	Human Semaphorin-5A (SEMA5A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ12815; SEMAF; semF; sema domain; seven thrombospondin repeats (type 1 and type 1-like); transmembrane domain (TM) and short cytoplasmic domain; 5A semaphorin 5A semaphorin F
Accession No.	Q13591
Uniprot	Q13591
GenID	9037;
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:0.31 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 SEMA5A in samples. An antibody specific for SEMA5A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySEMA5A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA5A 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 SEMA5A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**SEMA5A belongs to the semaphorin gene family that encodes membrane proteins containing a semaphorin domain and several thrombospondin type-1 repeats. Members of this family are involved in axonal guidance during neural development. This gene has been implicated as an autism susceptibility gene.

The deduced 1,077-amino acid protein contains an N-terminal signal sequence, followed by a semaphorin domain, 7 thrombospondin type-1 repeats, a putative transmembrane domain, and a short cytoplasmic tail. It also has 13 conserved cysteines and a conserved N-glycosylation site. Northern blot analysis of whole mouse embryos detected 2 Semf transcripts at embryonic day 10, and their expression decreased toward birth.

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Note: This product is for in vitro research use only