

## Human Semaphorin-4F (SEMA4F) ELISA Kit

Catalog No: #EK7393



Package Size: #EK7393-1 48T #EK7393-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Human Semaphorin-4F (SEMA4F) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	M-SEMA; PRO2353; SEMAM; SEMAW; m-Sema-M; sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; 4F semaphorin M semaphorin W
Accession No.	O95754
Uniprot	O95754
GenID	10505;
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:15.6-1000 pg/mL

Sensitivity:7.8 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:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SEMA4F in samples. An antibody specific for SEMA4F has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySEMA4F present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA4F 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 SEMA4F bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The semaphorins comprise a large family of membrane-bound and secreted proteins, some of which have been shown to function in axon guidance. Encinas et al. (1999) cloned a novel semaphorin, which they referred to as semaphorin W (SEMAW). Sequence analysis of the SEMAW gene indicated that SEMAW is a member of the class IV subgroup of transmembrane semaphorins. The mouse and rat forms of semaphorin W share 97% amino acid sequence identity, and each shows approximately 91% identity with the human form. Expression studies showed that SEMAW mRNA is expressed at high levels in postnatal brain and lung and, unlike many other semaphorins, at low levels in the developing embryo. Functional studies showed that semaphorin W can collapse retinal ganglion cell axons.

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Note: This product is for in vitro research use only