

Human Semaphorin 3F (S3F) ELISA Kit

Catalog No: #EK7397



Package Size: #EK7397-1 48T #EK7397-2 96T

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Description

Product Name	Human Semaphorin 3F (S3F) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	SEMA-IV; SEMA4; SEMAK; sema IV sema domain; immunoglobulin domain (Ig); short basic domain; secreted; 3F semaphorin 3F semaphorin III/F semaphorin IV
Accession No.	Q13275
Uniprot	Q13275
GeneID	6405;
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:5.9 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 SEMA3F in samples. An antibody specific for SEMA3F has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySEMA3F present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA3F 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 SEMA3F bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The semaphorins are a family of proteins that are involved in signaling. Sequence comparisons have grouped the secreted semaphorins into 3 general classes, all of which also have an immunoglobulin domain. The semaphorin III family, consisting of human semaphorin III (SEMA3A), chicken collapsin, and mouse semaphorins A, D, and E, all have a basic domain at the C terminus. Chicken collapsin contributes to path finding by axons during development by inhibiting extension of growth cones through an interaction with a collapsin response mediator protein of relative molecular mass 62K (CRMP62), a putative homolog of an axonal guidance associated UNC33 gene product. SEMA3F is a secreted member of the semaphorin III family.

Note: This product is for in vitro research use only