Human Protein spinster homolog 2 (SPNS2) ELISA Kit

Catalog No: #EK6571

Package Size: #EK6571-1 48T #EK6571-2 96T

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Description

Product Name	Human Protein spinster homolog 2 (SPNS2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Spinster homolog 2
Accession No.	Q8IVW8
Uniprot	Q8IVW8
GeneID	124976;
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:Request Information

Sensitivity:Request Information

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 SPNS2 in samples. An antibody specific for SPNS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySPNS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPNS2 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 SPNS2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:SPNS2 contains 548 amino acids and shares significant homology with zebrafish Spns2. Kawahara et al. (2009) showed that zebrafish Spns2, which contains 12 transmembrane domains, was expressed at the membrane of transfected Chinese hamster ovary cells. Overexpression of either zebrafish or human SPNS2 increased the release of sphingosine-1-phosphate (S1P) into the culture medium. Kawahara et al. (2009) concluded that SPNS2 functions as an S1P transporter in S1P secretion.an N-ethyl-N-nitrosurea-induced arg153-to-ser mutation in zebrafish Spns2 led to cardiac bifida. Expression of human SPNS2, but not human SPNS1 , reversed the defect. The defect was also rescued by S1P injection or by reintroduction of zebrafish Spns2 in extraembryonic tissue yolk syncytial layer.

Note: This product is for in vitro research use only