

Mouse Serine palmitoyltransferase 3 (SPTLC3) ELISA Kit

Catalog No: #EK6632

Orders: order@signalwayantibody.com

Package Size: #EK6632-1 48T #EK6632-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Serine palmitoyltransferase 3 (SPTLC3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	RP5-1077I2.1; C20orf38; FLJ11112; FLJ90790; LCB3; SPT3; SPTLC2L; dJ718P11; dJ718P11.1; long chain base biosynthesis protein 3]serine palmitoyltransferase; long chain base subunit 2-like (aminotransf
Accession No.	Q8BG54
Uniprot	Q8BG54
GeneID	228677;
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:0.058 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 μ L

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate SPTLC3 in samples. An antibody specific for SPTLC3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SPTLC3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPTLC3 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 SPTLC3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:SPTLC3 orthologs were found in rat, mouse, and dog. Quantitative real-time PCR of human tissues showed highest expression in placenta, followed by skin, adrenal gland, testis, uterus, salivary gland, prostate, and kidney, lower expression in all other tissues, and no expression in peripheral blood cells and bone marrow. SPTLC3 and SPTLC2 showed different expression patterns, possibly reflecting tissue-specific requirements of sphingolipid synthesis. Western blot analysis revealed SPTLC3 expression in human trophoblast cell lines. Overexpression of SPTLC3 in HEK293 cells, which have little endogenous SPTLC3, resulted in increased SPT activity by 2- to 3-fold. Expression of an SPTLC3-specific siRNA in HepG2 cells and human trophoblast cells significantly decreased SPT activity, indicating that SPTLC3 plays a role in SPT activity.

Note: This product is for in vitro research use only