

# Mouse Serine palmitoyltransferase 1 (SPTLC1) ELISA Kit

Catalog No: #EK6629

Orders: order@signalwayantibody.com

Package Size: #EK6629-1 48T #EK6629-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Serine palmitoyltransferase 1 (SPTLC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	HSAN; HSAN1; HSN1; LBC1; LCB1; MGC14645; SPT1; SPTI; long chain base biosynthesis protein 1 serine C-palmitoyltransferase serine palmitoyltransferase subunit 1 serine-palmitoyl-CoA transferase 1
Accession No.	O35704
Uniprot	O35704
GeneID	268656;
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:0.054 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:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate SPTLC1 in samples. An antibody specific for SPTLC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SPTLC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPTLC1 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 SPTLC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Serine palmitoyltransferase, which consists of two different subunits, is the initial enzyme in sphingolipid biosynthesis. It converts L-serine and palmitoyl CoA to 3-oxosphinganine with pyridoxal 5'-phosphate as a cofactor. The product of this gene is the long chain base subunit 1 of serine palmitoyltransferase. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified.

The SPTLC1 cDNA contains an open reading frame of 1,422 nucleotides and encodes a 473-amino acid protein . A search of the UniGene database identified corresponding cDNA clones expressed in 29 different tissues, indicating that SPTLC1 is ubiquitously expressed.

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Note: This product is for in vitro research use only