

# Mouse Serine palmitoyltransferase 2 (SPTLC2) ELISA Kit



Catalog No: #EK6630

Orders: order@signalwayantibody.com

Package Size: #EK6630-1 48T #EK6630-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Serine palmitoyltransferase 2 (SPTLC2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	KIAA0526; LCB2; SPT2; serine palmitoyltransferase; subunit II
Accession No.	P97363
Uniprot	P97363
GeneID	20773;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 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:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SPTLC2 in samples. An antibody specific for SPTLC2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySPTLC2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPTLC2 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 SPTLC2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Serine palmitoyltransferase (SPT; EC 2.3.1.50) is the key enzyme in sphingolipid biosynthesis. It catalyzes the pyridoxal-5-prime-phosphate-dependent condensation of L-serine and palmitoyl-CoA to 3-oxosphinganine. SPTLC2encodes a long chain base subunit of serine palmitoyltransferase. Serine palmitoyltransferase, which consists of two different subunits, is the initial enzyme in sphingolipid biosynthesis. It catalyzes the pyridoxal 5'-phosphate dependent condensation of L-serine and palmitoyl CoA to 3-oxosphinganine. Mutations in this gene were identified in patients with hereditary sensory neuropathy type I. Alternatively spliced variants encoding different isoforms have been identified.The LCB2 cDNA encodes a protein of 562 amino acids that is more than 90% identical to the mouse protein.

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Note: This product is for in vitro research use only