

Human SPTLC1 (Serine palmitoyltransferase 1) ELISA Kit | SPTLC1 elisa kit

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CATALOG #
AAA248931

REACTIVITY
Human

PRODUCT SYNONYMS

SPTLC1 (Serine palmitoyltransferase 1); Human SPTLC1 (Serine palmitoyltransferase 1) ELISA Kit; SPTLC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Sphingosine 1 Phosphate. No significant cross-reactivity or interference between Sphingosine 1 Phosphate and analogues was observed.
Sequence Length	473
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Sphingosine 1 Phosphate were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Sphingosine 1 Phosphate were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a SPTLC1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A/not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.009	0.128	0.223	0.38	0.671	0.977	1.335	1.973

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SPTLC1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Sphingosine 1 Phosphate antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Sphingosine 1 Phosphate antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Sphingosine 1 Phosphate amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Sphingosine 1 Phosphate can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29244577
NCBI GeneID	268656
NCBI Accession #	NP_033295.2
NCBI GenBank Nucleotide #	NM_009269.2
UniProt Accession #	O35704; O54813; Q8BH11
Molecular Weight	52,535 Da
NCBI Official Full Name	serine palmitoyltransferase 1
NCBI Official Synonym Full Names	serine palmitoyltransferase, long chain base subunit 1
NCBI Official Symbol	Sptlc1
NCBI Official Synonym Symbols	Lcb1; SPT1; C77762; AW552086; E030036H05
NCBI Protein Information	serine palmitoyltransferase 1
UniProt Protein Name	Serine palmitoyltransferase 1
UniProt Gene Name	Sptlc1
UniProt Synonym Gene Names	Lcb1; LCB 1; SPT 1; SPT1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/sptlc1-serine-palmitoyltransferase-1/248931>