

Human Serine Palmitoyltransferase 3 (SPTLC3) ELISA Kit | SPTLC3 elisa kit

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CATALOG #
AAA330569

REACTIVITY
Human

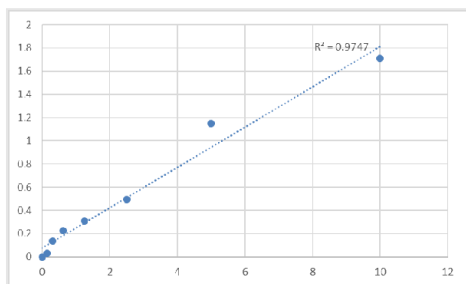
PRODUCT SYNONYMS

Serine Palmitoyltransferase 3 (SPTLC3); Human Serine Palmitoyltransferase 3 (SPTLC3) ELISA Kit; SPTLC3; RP5-1077I2.1; C20orf38; FLJ111112; FLJ90790; LCB3; SPT3; SPTLC2L; dJ718P11; dJ718P11.1; long chain base biosynthesis protein 3; serine palmitoyltransferase; long chain base subunit 2-like (aminotransf; SPTLC3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Serine palmitoyltransferase 3 (SPTLC3) ELISA Kit has high sensitivity and excellent specificity for detection of Human SPTLC3. No significant cross-reactivity or interference between Human SPTLC3 and analogues was observed.
Sequence Length	552
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Serine palmitoyltransferase 3 (SPTLC3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SPTLC3 elisa kit	Description: This Human Serine palmitoyltransferase 3 (SPTLC3) ELISA Kit 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119220554
NCBI GeneID	55304
NCBI Accession #	NP_060797.2
NCBI GenBank Nucleotide #	NP_060797.2
UniProt Accession #	Q9NUV7
NCBI Official Full Name	serine palmitoyltransferase 3
NCBI Official Synonym Full Names	serine palmitoyltransferase long chain base subunit 3
NCBI Official Symbol	SPTLC3
NCBI Official Synonym Symbols	LCB3; SPT3; LCB 3; LCB2B; SPT 3; hLCB2b; SPTLC2L; C20orf38; dJ718P11; dJ718P11.1
NCBI Protein Information	serine palmitoyltransferase 3
UniProt Protein Name	Serine palmitoyltransferase 3
UniProt Gene Name	SPTLC3
UniProt Synonym Gene Names	C20orf38; SPTLC2L; LCB2b; LCB 3; SPT 3
UniProt Entry Name	SPTC3_HUMAN

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.