SPTLC1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	SPTLC1, Polyclonal Antibody
Full Product Name	SPTLC1 Polyclonal Antibody
Product Gene Name	anti-SPTLC1 antibody
Clonality	Polyclonal
Molecular Weight	16,073 Da
OMIM	162400
3D Structure	ModBase 3D Structure for O15269
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-SPTLC1 antibody	MBS8526213 is an antibody targeting SPTLC1. Also known as SPTLC1 Polyclonal Antibody.
Other Notes	Small volumes of anti-SPTLC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPTLC1. It may not necessarily be applicable to this product.

NCBI GI #	526252798
NCBI GeneID	10558
NCBI Accession #	NP_001268232.1
UniProt Primary Accession #	O15269
UniProt Secondary Accession #	Q5VWB4; Q96IX6; A8K681
UniProt Related Accession #	O15269
GenBank Nucleotide #	NM_001281303.1
NCBI Official Full Name	serine palmitoyltransferase 1 isoform c
NCBI Official Synonym Full Names	serine palmitoyltransferase long chain base subunit 1
NCBI Official Symbol	SPTLC1
NCBI Official Synonym Symbols	HSN1; LBC1; LCB1; SPT1; SPTI; HSAN1
UniProt Protein Name	Serine palmitoyltransferase 1
UniProt Synonym Protein Names	Long chain base biosynthesis protein 1; LCB 1; Serine-palmitoyl-CoA transferase 1; SPT 1; SPT1
Protein Family	Serine palmitoyltransferase
UniProt Gene Name	SPTLC1
UniProt Synonym Gene Names	LCB1; LCB 1; SPT 1; SPT1
NCBI Protein Information	serine palmitoyltransferase 1

NCBI Summary for SPTLC1	This gene encodes a member of the class-II pyridoxal-phosphate-dependent aminotransferase family. The encoded protein is the long chain base subunit 1 of serine palmitoyltransferase. Serine palmitoyltransferase converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5'-phosphate and is the key enzyme in sphingolipid biosynthesis. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified. Pseudogenes of this gene have been defined on chromosomes 1, 6, 10, and 13. [provided by RefSeq, Jul 2013]
UniProt Comments for SPTLC1	Serine palmitoyltransferase (SPT). The heterodimer formed with SPTLC2 or SPTLC3 constitutes the catalytic core. The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference. The SPTLC1-SPTLC2-SPTSSA complex shows a strong preference for C16-CoA substrate, while the SPTLC1-SPTLC3-SPTSSA isozyme uses both C14-CoA and C16-CoA as substrates, with a slight preference for C14-CoA. The SPTLC1-SPTLC2-SPTSSB complex shows a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme displays an ability to use a broader range of acyl-CoAs, without apparent preference.
Research Articles on SPTLC1	**1.** Therefore, SPT may be an attractive therapeutic anti-cancer drug target for which compound-2 may be a promising new drug.
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