

Rabbit anti-Human SPT1 Polyclonal Antibody | anti-SPTLC1 antibody

SPT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39861	Rabbit	Human	Immunohistochemistry, Western Blot, ELISA

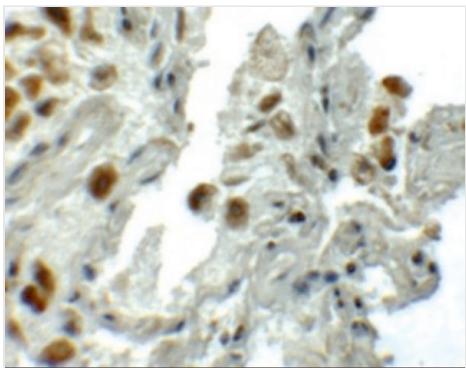
PRODUCT SYNONYMS

SPT1; Polyclonal Antibody; SPT1 Antibody; HSN1; LBC1; LCB1; SPT1; HSAN1; Serine palmitoyltransferase 1; Long chain base biosynthesis protein 1; LCB 1; serine palmitoyltransferase; long chain base subunit 1; anti-SPTLC1 antibody

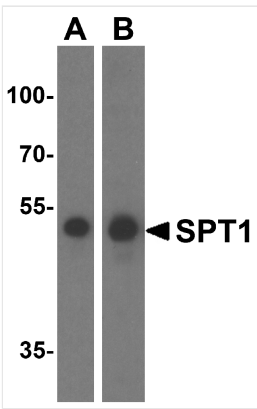
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	At least two isoforms of SPT1 are known to exist; this antibody will detect only isoform a. SPT1 antibody is predicted to not cross-react with SPT2.
Purity/Purification	SPT1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	473
Applicable Applications for anti-SPTLC1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	SPT1 antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human SPT1.
Buffer	SPT1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	SPT1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry of SPT1 in human lung tissue with SPT1 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of SPT1 in (A) A549 and (B) HeLa cell lysate with SPT1 antibody at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-SPTLC1 antibody

SPT1 Antibody: Serine palmitoyltransferase, which consists of two different subunits, is the key enzyme in sphingolipid biosynthesis. It converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5'-phosphate as a cofactor. SPT1 is the long chain base subunit 1 of mammalian serine palmitoyltransferase. SPT1 is not catalytically active but is necessary for the stabilization of the SPT2 subunit and anchoring the holoenzyme to the cytosolic face of the endoplasmic reticulum. Missense mutations in this gene have been identified in patients with hereditary sensory neuropathy type 1 (HSAN1). These mutations induce a shift in the substrate specificity of the holoenzyme, leading to the formation and accumulation of two neurotoxic sphingolipids.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5454084
NCBI GeneID	10558
NCBI Accession #	NP_6406
NCBI GenBank Nucleotide #	NM_006415.3
UniProt Accession #	O15269; Q5VWB4; Q96IX6; A8K681
Molecular Weight	16,073 Da
NCBI Official Full Name	serine palmitoyltransferase 1 isoform a
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
NCBI Protein Information	serine palmitoyltransferase 1; LCB 1; SPT 1; serine C-palmitoyltransferase; serine-palmitoyl-CoA transferase 1; long chain base biosynthesis protein 1
UniProt Protein Name	Serine palmitoyltransferase 1
UniProt Gene Name	SPTLC1
UniProt Synonym Gene Names	LCB1; LCB 1; SPT 1; SPT1
UniProt Entry Name	SPTC1_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.

