

SPTLC1 Polyclonal Antibody | anti-SPTLC1 antibody

Anti-SPTLC1 Antibody

CATALOG # AAA46355	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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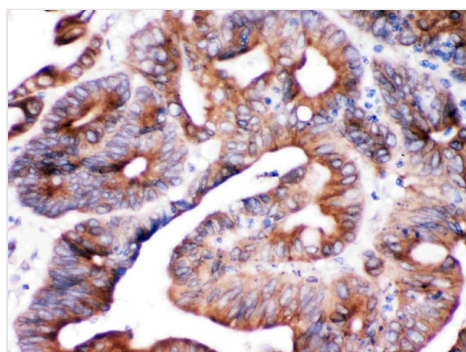
PRODUCT SYNONYMS

SPTLC1; Polyclonal Antibody; Anti-SPTLC1 Antibody; Serine palmitoyltransferase 1; HSAN; HSAN1; HSN1; LBC1; LCB 1; LCB1; Long chain base biosynthesis protein 1; MGC14645; Serine C palmitoyltransferase; Serine palmitoyl CoA transferase 1; Serine palmitoyltransferase long chain base subunit 1; Serine palmitoyl transferase subunit 1; Serine-palmitoyl-CoA transferase 1; SPT 1; SPT1; SPTC1_HUMAN; SPTI; SPTLC 1; SPTLC1 antibody; serine palmitoyltransferase; long chain base subunit 1; anti-SPTLC1 antibody

PRODUCT SPECIFICATIONS

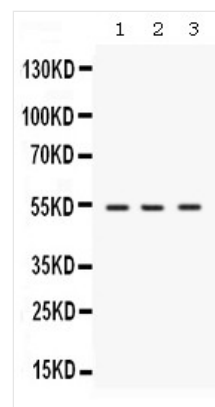
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	513
Applicable Applications for anti-SPTLC1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SPTLC1 (444-473aa IRVVVTVEQTEEELEAASTIKEVAQAVLL), different from the related mouse sequence by three amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

SPTLC1 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- SPTLC1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of SPTLC1 expression in rat brain extract (lane 1), mouse brain extract (lane 2) and MCF-7 whole cell lysates (lane 3). SPTLC1 at 53KD was detected using rabbit anti- SPTLC1 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-SPTLC1 antibody	Description: Rabbit IgG polyclonal antibody for Serine palmitoyltransferase 1(SPTLC1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: SPTLC1(Serine palmitoyltransferase, long chain base subunit 1), also known as SPT1, LCB1, is a protein which in humans is encoded by the SPTLC1 gene. Dawkins et al. (2001) noted that the SPTLC1 gene maps to chromosome 9q22.1-q22.3. Serine palmitoyltransferase, which consists of two different subunits, is the initial enzyme in sphingolipid biosynthesis. It converts L-serine and palmitoyl CoA to 3-oxosphinganine with pyridoxal 5'-phosphate as a cofactor. The product of this gene is the long chain base subunit 1 of serine palmitoyltransferase. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified.
References	1. Dawkins, J. L., Hulme, D. J., Brahmbhatt, S. B., Auer-Grumbach, M., Nicholson, G. A.Mutations in SPTLC1, encoding serine palmitoyltransferase, long chain base subunit-1, cause hereditary sensory neuropathy type I.Nature Genet. 27: 309-312, 2001. 2. McCampbell, A., Truong, D., Broom, D. C., Allchorne, A., Gable, K., Cutler, R. G., Mattson, M. P., Woolf, C. J., Frosch, M. P., Harmon, J. M., Dunn, T. M., Brown, R. H., Jr.Mutant SPTLC1 dominantly inhibits serine palmitoyltransferase activity in vivo and confers an age-dependent neuropathy.Hum. Molec. Genet. 14: 3507-3521, 2005. 3. Verhoeven, K., Coen, K., De Vriendt, E., Jacobs, A., Van Gerwen, V., Smouts, I., Pou-Serradell, A., Martin, J.-J., Timmerman, V., De Jonghe, P.SPTLC1 mutation in twin sisters with hereditary sensory neuropathy type I.Neurology 62: 1001-1002, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	526252798
NCBI GeneID	10558
NCBI Accession #	NP_001268232.1
NCBI GenBank Nucleotide #	NM_001281303.1
UniProt Accession #	O15269; Q5VWB4; Q96IX6; A8K681
Molecular Weight	16,073 Da
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; HSN1
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
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.