

For Research Use Only

# SPTLC1 Monoclonal antibody

Catalog Number: 66899-1-Ig

Featured Product

1 Publications



## Basic Information

**Catalog Number:**

66899-1-Ig

**Size:**

981 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG7876

**GenBank Accession Number:**

BC007085

**GeneID (NCBI):**

10558

**UNIPROT ID:**

O15269

**Full Name:**

serine palmitoyltransferase, long chain base subunit 1

**Calculated MW:**

53 kDa

**Observed MW:**

55 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2D11D7

**Recommended Dilutions:**

WB 1:2000-1:10000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

Human, mouse, rat

**Cited Species:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells

IHC : human colon cancer tissue,

## Background Information

SPTLC1 is a subunit of serine palmitoyltransferase (SPT) which is the key enzyme in sphingolipid biosynthesis and is essential for embryogenesis and cell survival. Mutations in the SPTLC1 gene (C133W, C133Y, V144D, and G387A) were reported to be responsible for the development of an inherited sensory neuropathy (hereditary sensory neuropathy type I, HSN1).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xianping Shi	33080033	Nucleic Acids Res	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

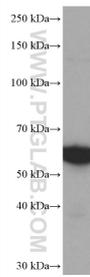
T: 4006900926

E: Proteintech-CN@ptglab.com

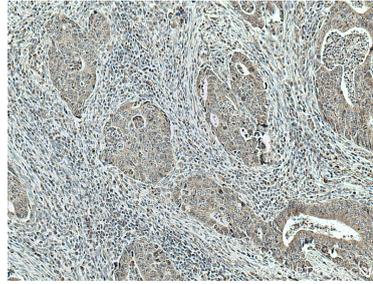
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

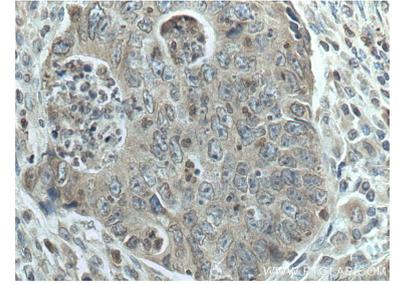
## Selected Validation Data



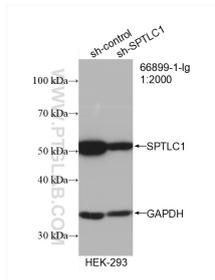
HEK-293 cells were subjected to SDS PAGE followed by western blot with 66899-1-Ig (SPTLC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66899-1-Ig (SPTLC1 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66899-1-Ig (SPTLC1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of SPTLC1 antibody (66899-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SPTLC1 transfected HEK-293 cells.