

## Product Information

### MemDX™ Membrane Protein Human SPTLC1 (Serine palmitoyltransferase long chain base subunit 1) for Antibody Discovery

Cat. No.: **MP0784J**

This product is for research use only and is not intended for diagnostic use.

This product is a 52.6 kDa Human SPTLC1 membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

SPTLC1

##### Protein Length

Full-length

##### Protein Class

Druggable Genome, Transmembrane

##### Molecular Weight

52.6 kDa

##### TMD

1

##### Sequence

MATATEQWVLVEMVQALYEAPAYHLILEGILILWIIRLLFSKTYKLQERSDLTVKEKEELIEEWQPEPLV  
PPVPKDHPPALNINIVSGPPSHKTVVNGKECINFASFNGLLDNPRVKAAALASLKKYGVGTGCGPRGFY  
TFDVHLDLEDRLAKFMKTEEAIIYSYGFATIASAIPAYSKRGDIVFVDRAACFAIQKGLQASRSDIKLFK  
HNDMADLERLLKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPELVKLKYKYKARIFLEESLSFG  
VLGEHGRGVTEHYGINIDDLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPLAAAAI  
EALNIMEENPGIFAVLKEKCGQIHKALQGISGLKVVGESLSPAFHLQLEESTGSREQDVRLQEIVDQCM  
NRSIALTQARYLEKEEKCLPPPSIRVVVTVEQTEELERAASTIKEVAQAVLL

#### Product Description

##### Expression Systems

HEK293T

##### Tag

C-Myc/DDK

**Form**

Liquid

**Purification**

Anti-DDK affinity column followed by conventional chromatography steps

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer**

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Storage**

Store at +4°C for up to one week or several months at -80°C

**Target****Target Protein**

SPTLC1

**Full Name**

Serine palmitoyltransferase long chain base subunit 1

**Introduction**

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.

**Alternative Names**

HSN1; LBC1; LCB1; SPT1; SPTI; HSN1

**Gene ID**

[10558](#)

**UniProt ID**

[O15269](#)