

**Anti-HSN1 Antibody**  
Rabbit polyclonal antibody to HSN1  
Catalog # AP60688

**Specification**

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**Anti-HSN1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O15269</a>
Other Accession	<a href="#">O35704</a>
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52744

**Anti-HSN1 Antibody - Additional Information**

**Gene ID** 10558

**Other Names**

LCB1; Serine palmitoyltransferase 1; Long chain base biosynthesis protein 1; LCB 1; Serine-palmitoyl-CoA transferase 1; SPT 1; SPT1

**Target/Specificity**

Recognizes endogenous levels of HSN1 protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-HSN1 Antibody - Protein Information**

**Name** SPTLC1

**Synonyms** LCB1

**Function**

Component of the serine palmitoyltransferase multisubunit enzyme (SPT) that catalyzes the initial and rate-limiting step in sphingolipid biosynthesis by condensing L-serine and activated acyl-CoA (most commonly palmitoyl-CoA) to form long-chain bases. The SPT complex is also composed of SPTLC2 or SPTLC3 and SPTSSA or SPTSSB. Within this complex, the heterodimer with SPTLC2 or SPTLC3 forms the catalytic core (PubMed:<a href="http://www.uniprot.org/citations/19416851" target="\_blank">19416851</a>, PubMed:<a href="http://www.uniprot.org/citations/33558762" target="\_blank">33558762</a>).

target="\_blank">33558762</a>, PubMed:<a href="http://www.uniprot.org/citations/36170811" target="\_blank">36170811</a>). The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference (PubMed:<a href="http://www.uniprot.org/citations/19416851" target="\_blank">19416851</a>, PubMed:<a href="http://www.uniprot.org/citations/33558762" target="\_blank">33558762</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/19416851" target="\_blank">19416851</a>, PubMed:<a href="http://www.uniprot.org/citations/19648650" target="\_blank">19648650</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/19416851" target="\_blank">19416851</a>, PubMed:<a href="http://www.uniprot.org/citations/19648650" target="\_blank">19648650</a>, PubMed:<a href="http://www.uniprot.org/citations/33558761" target="\_blank">33558761</a>, PubMed:<a href="http://www.uniprot.org/citations/33558762" target="\_blank">33558762</a>). Required for adipocyte cell viability and metabolic homeostasis (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein  
{ECO:0000250|UniProtKB:O35704}

#### Tissue Location

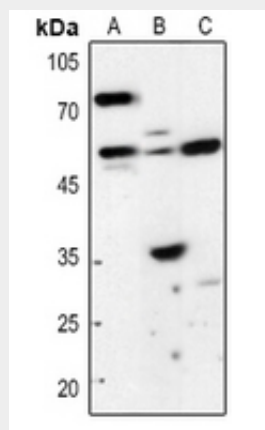
Widely expressed. Not detected in small intestine.

#### Anti-HSN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-HSN1 Antibody - Images



Western blot analysis of HSN1 expression in HEK293T (A), rat muscle (B), rat lung (C) whole cell lysates.

**Anti-HSN1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HSN1. The exact sequence is proprietary.