

Anti-HSN1 Antibody

Rabbit polyclonal antibody to HSN1

Catalog # AP60688

Product Information

| | |
|-------------------|---------------------------|
| Application | WB |
| Primary Accession | O15269 |
| Other Accession | O35704 |
| Reactivity | Human, Mouse, Rat, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 52744 |

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 |

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: 19416851 , PubMed: 33558762 , PubMed: 36170811). The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference (PubMed: 19416851 , PubMed: 33558762). 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: 19416851 , |

PubMed:[19648650](#)). 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:[19416851](#), PubMed:[19648650](#), PubMed:[33558761](#), PubMed:[33558762](#)). Required for adipocyte cell viability and metabolic homeostasis (By similarity).

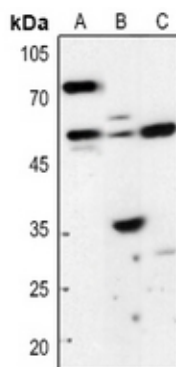
Cellular Location Endoplasmic reticulum membrane; Single-pass membrane protein {ECO:0000250|UniProtKB:O35704}

Tissue Location Widely expressed. Not detected in small intestine.

Background

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

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.