abcam

Product datasheet

Anti-Serine Palmitoyltransferase antibody - C-terminal ab71631

1 Image

Overview

Product name	Anti-Serine Palmitoyltransferase antibody - C-terminal
Description	Rabbit polyclonal to Serine Palmitoyltransferase - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide conjugated to KLH, corresponding to C terminal amino acids 532-562 of Human Serine Palmitoyltransferase Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Mouse liver tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	ab71631 is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab71631** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/1000.
WB		1/100 - 1/500. Detects a band of approximately 62 kDa (predicted molecular weight: 62 kDa).

Target

Function
Serine palmitoyltransferase (SPT). The heterodimer formed with LCB1/SPTLC1 constitutes the catalytic core. The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference. The SPTLC1-SPTLC2-SSSPTA complex shows a strong preference for C16-CoA substrate, while the SPTLC1-SPTLC2-SSSPTB complex displays a preference for C18-CoA substrate.

Tissue specificity
Widely expressed.

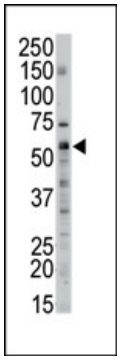
Pathway
Lipid metabolism; sphingolipid metabolism.

Involvement in disease
Defects in SPTLC2 are the cause of hereditary sensory and autonomic neuropathy type 1C (HSAN1C) [MIM:613640]. It is a form of hereditary sensory and autonomic neuropathy, a genetically and clinically heterogeneous group of disorders characterized by degeneration of dorsal root and autonomic ganglion cells, and by prominent sensory abnormalities with a variable degree of motor and autonomic dysfunction. The neurological phenotype is often complicated by severe infections, osteomyelitis, and amputations. HSAN1C symptoms include loss of touch and vibration in the feet, dysesthesia and severe panmodal sensory loss in the upper and lower limbs, distal lower limb sensory loss with ulceration and osteomyelitis, and distal muscle weakness.

Sequence similarities
Belongs to the class-II pyridoxal-phosphate-dependent aminotransferase family.

Cellular localization
Endoplasmic reticulum membrane.

Images



Western blot - Anti-Serine Palmitoyltransferase antibody - C-terminal (ab71631)

Anti-Serine Palmitoyltransferase antibody - C-terminal (ab71631) at 1/100 dilution + mouse liver tissue lysate at 12.5 µg

Predicted band size: 62 kDa
Observed band size: 62 kDa
Additional bands at: 75 kDa. We are unsure as to the identity of these extra bands.

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