

## Product datasheet

# Anti-Serine Palmitoyltransferase antibody - C-terminal ab71631

[1 Image](#)

### Overview

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

### Properties

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

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab71631** in the following tested applications.

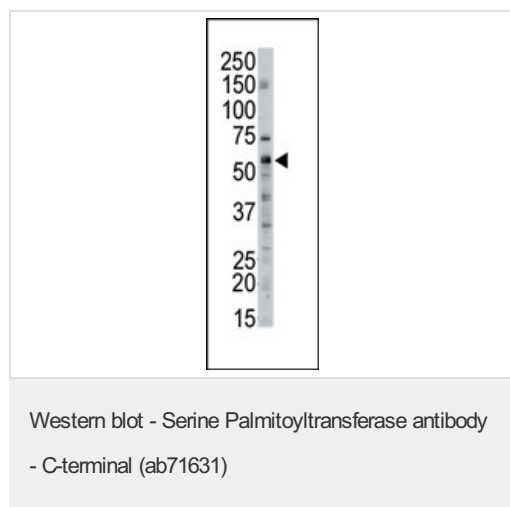
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Widely expressed.
<b>Pathway</b>	Lipid metabolism; sphingolipid metabolism.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the class-II pyridoxal-phosphate-dependent aminotransferase family.
<b>Cellular localization</b>	Endoplasmic reticulum membrane.

## Images



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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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