

## Product datasheet

# Anti-Serine Palmitoyltransferase antibody ab23696

★★★★★ [3 Abreviews](#) [25 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Anti-Serine Palmitoyltransferase antibody
<b>Description</b>	Rabbit polyclonal to Serine Palmitoyltransferase
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody detects human serine palmitoyltransferase subunit SPT2
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide: LDRPFDETTYEETED , corresponding to amino acids 548-562 of Human Serine Palmitoyltransferase. <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	This antibody was affinity purified.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab23696 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
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. 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.

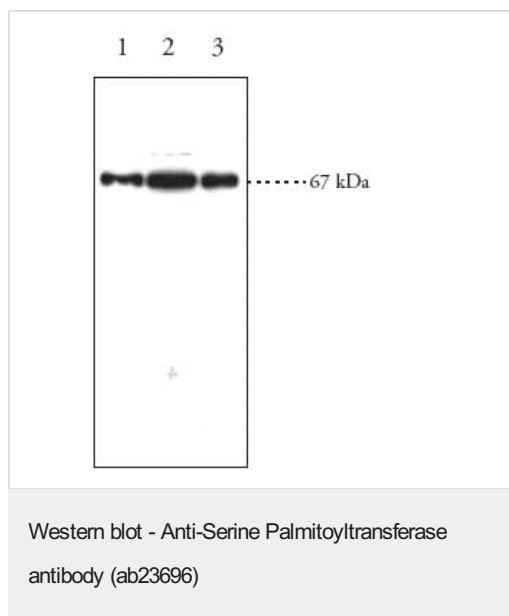
### Sequence similarities

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

### Cellular localization

Endoplasmic reticulum membrane.

## Images



**All lanes :** Anti-Serine Palmitoyltransferase antibody (ab23696) at 1 µg/ml

**Lane 1 :** 30ug mouse brain homogenate.

**Lane 2 :** 30ug rat kidney supernatant.

**Lane 3 :** 30ug human liver microsome.

**Predicted band size:** 62 kDa

**Observed band size:** 67 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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