

# SCD1 Rabbit pAb

Catalog No.: A16429SP **41 Publications**

## Basic Information

**Observed MW**

37 kDa

**Calculated MW**

42 kDa

**Category**

Primary antibody

**Applications**

WB,IF/ICC,IF-F,IF-P,IHC-P,ELISA

**Cross-Reactivity**

Human, Mouse, Rat

## Background

This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. The protein belongs to the fatty acid desaturase family and is an integral membrane protein located in the endoplasmic reticulum. Transcripts of approximately 3.9 and 5.2 kb, differing only by alternative polyadenylation signals, have been detected. A gene encoding a similar enzyme is located on chromosome 4 and a pseudogene of this gene is located on chromosome 17.

## Recommended Dilutions

**WB** 1:10000 - 1:150000**IF/ICC** 1:1000 - 1:8000**IF-F** 1:1000 - 1:8000**IF-P** 1:1000 - 1:8000**IHC-P** 1:2000 - 1:20000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)

## Immunogen Information

**Gene ID**

6319

**Swiss Prot**

O00767

**Immunogen**

This information is considered to be commercially sensitive.

**Synonyms**

SCD1; FADS5; SCDOS; hSCD1; MSTP008; SCD

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

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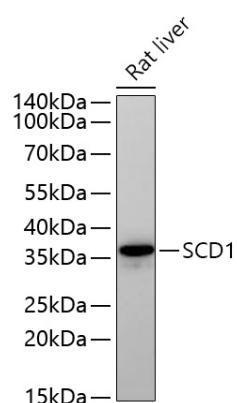
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## Validation Data



Western blot analysis of lysates from Rat liver using SCD1 Rabbit pAb (A16429SP) at 1:150000 dilution incubated overnight at 4°C.

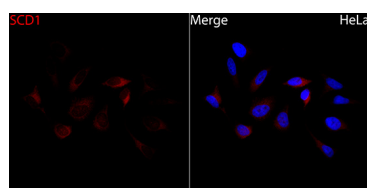
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

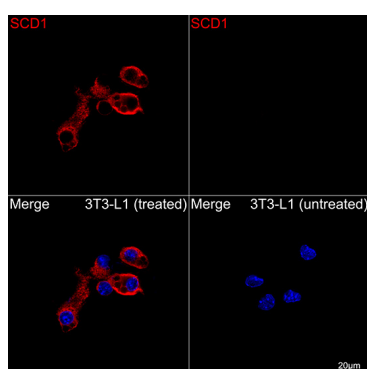
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

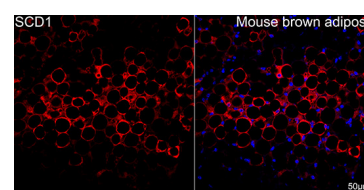
Exposure time: 60 s.



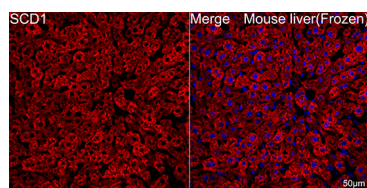
Immunofluorescence analysis of HeLa cells using SCD1 Rabbit pAb (A16429SP) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



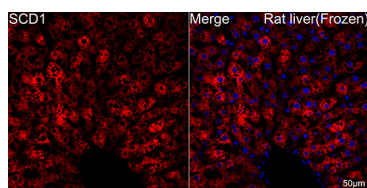
Confocal imaging of 3T3-L1 differentiated cells and 3T3-L1 cells using SCD1 Rabbit pAb (A16429SP, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



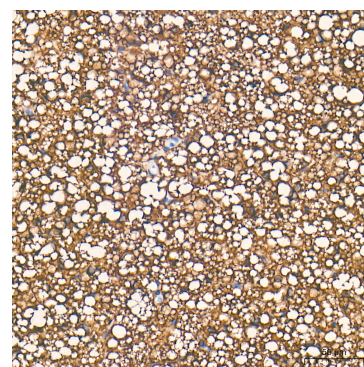
Confocal imaging of paraffin-embedded Mouse brown adipose tissue using SCD1 Rabbit pAb (A16429SP, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse liver tissue using SCD1 Rabbit pAb (A16429SP, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



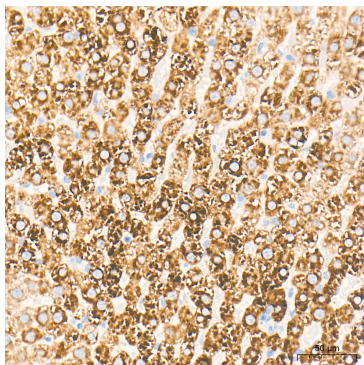
Confocal imaging of frozen sections of Rat liver tissue using SCD1 Rabbit pAb (A16429SP, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse brown adipose tissue using SCD1 Rabbit pAb (A16429SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using SCD1 Rabbit pAb (A16429SP) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.