

For Research Use Only

# SCD1 Polyclonal antibody

Catalog Number: 28678-1-AP

Featured Product

41 Publications



## Basic Information

### Catalog Number:

28678-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG29156

### GenBank Accession Number:

BC005807

### GeneID (NCBI):

6319

### UNIPROT ID:

O00767

### Full Name:

stearoyl-CoA desaturase (delta-9-desaturase)

### Calculated MW:

355 aa, 41 kDa

### Observed MW:

28-42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, monkey, goat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : A431 cells, A375 cells, A549 cells, HepG2 cells

IHC : mouse liver tissue, human liver tissue, mouse brown adipose tissue, human colon cancer tissue, human ovary tumor tissue, human stomach cancer tissue, rat heart tissue

IF/ICC : MCF-7 cells,

## Background Information

SCD1 (stearoyl-CoA desaturase) is a microsomal fatty acid monodesaturase, which catalyses the committed step in the biosynthesis of mono-unsaturated fatty acids from saturated fatty acids (PMID:10946019). SCD1 and SCD2 are the main isoforms expressed in mouse liver and brain respectively (PMID:15907797). The formation of homodimers and oligomers is an intrinsic property of SCD proteins. SCD1 is a multi-pass membrane protein and detected double bands of 37-42 kDa. The degradation product of 28 kDa may be caused by a major cleavage site at the C-terminus (PMID:15610069, PMID: 9843580).

## Notable Publications

| Author        | Pubmed ID | Journal                   | Application |
|---------------|-----------|---------------------------|-------------|
| Hao Wang      | 36429010  | Cells                     | WB          |
| Fei Long      | 36672408  | Cancers (Basel)           | WB          |
| Xiaoxiao Chen | 39901437  | ACS Appl Mater Interfaces | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

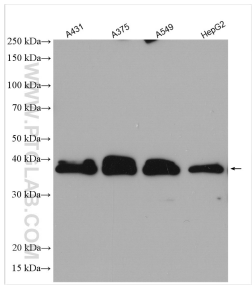
For technical support and original validation data for this product please contact:

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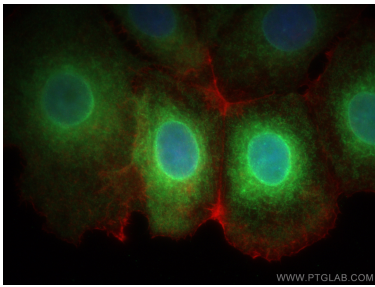
E: proteintech@ptglab.com  
W: ptglab.com

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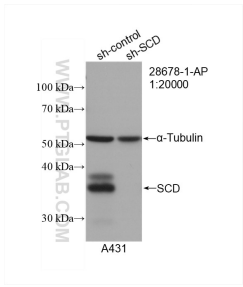
Selected Validation Data



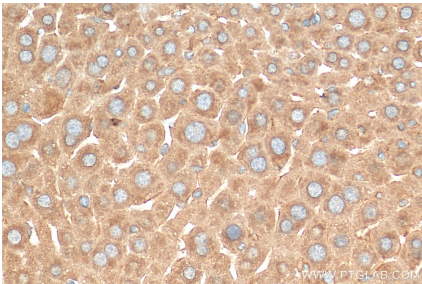
Various lysates were subjected to SDS PAGE followed by western blot with 28678-1-AP (SCD antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SCD antibody (28678-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of SCD antibody (28678-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SCD transfected A431 cells.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 28678-1-AP (SCD antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).