

For Research Use Only

# SCD1 Polyclonal antibody

Catalog Number: 28678-1-AP

Featured Product

41 Publications



## Basic Information

Catalog Number:

28678-1-AP

Concentration:

550 ug/ml

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

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

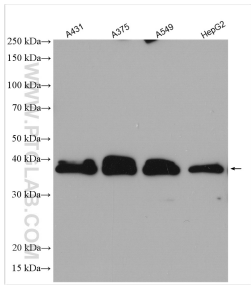
T: 4006900926

E: Proteintech-CN@ptglab.com

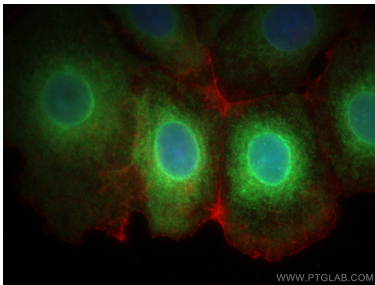
W: ptgcn.com

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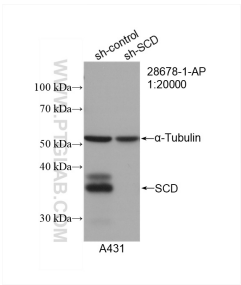
Selected Validation Data



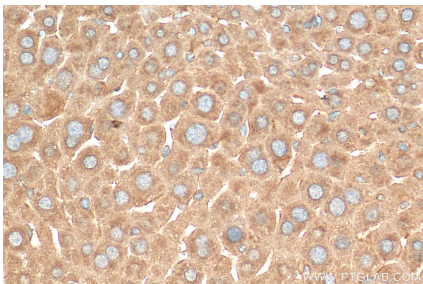
Various lysates were subjected to SDS PAGE followed by western blot with 28678-1-AP (SCD antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).