

For Research Use Only

SCD Polyclonal antibody

Catalog Number: 28678-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number: 28678-1-AP	GenBank Accession Number: BC005807	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 6319	Recommended Dilutions: WB 1:2000-1:16000
Source: Rabbit	UNIPROT ID: O00767	IHC 1:50-1:500 IF 1:200-1:800
Isotype: IgG	Full Name: stearoyl-CoA desaturase (delta-9-desaturase)	
Immunogen Catalog Number: AG29156	Calculated MW: 355 aa, 41 kDa	
	Observed MW: 28-42 kDa	

Applications

Tested Applications:

WB, IF, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

Human, mouse, rat

Cited Species:

human, rat, mouse

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: 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
Li-Wei Zhang	38327989	Front Pharmacol	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

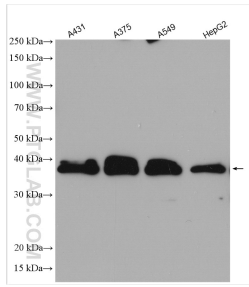
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

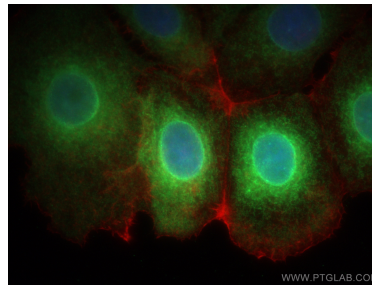
E: proteintech@ptglab.com
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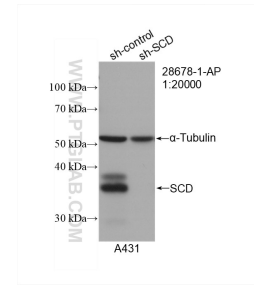
Selected Validation Data



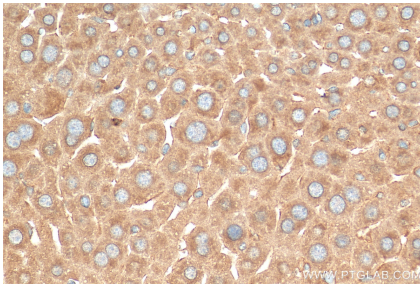
Various lysates were subjected to SDS PAGE followed by western blot with 28678-1-AP (SCD antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).