

For Research Use Only

# SCD1 Polyclonal antibody

Catalog Number: 23393-1-AP

Featured Product

50 Publications



## Basic Information

### Catalog Number:

23393-1-AP

### Size:

150ul, Concentration: 1000 µg/ml by Nanodrop and 520 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13456

### 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:

40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IHC: 1:20-1:200

## Applications

### Tested Applications:

IHC, ELISA

### Cited Applications:

IHC, IF

### Species Specificity:

human, rat

### Cited Species:

human, mouse, rat, chicken

### Positive Controls:

IHC : human liver tissue, human brain tissue

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

## Background Information

SCD (stearoyl-CoA desaturase) is a 37-45 kDa (PMID:10946019) microsomal fatty acid monodesaturase, also commonly known as 9-desaturase, which catalyses the committed step in the biosynthesis of mono-unsaturated fatty acids from saturated fatty acids. Five SCD genes (SCD1, SCD2, SCD3, SCD4 and SCD5) have been identified and characterized in mice and SCD1 and SCD2 are the main isoforms expressed in mouse liver and brain respectively, SCD3 is expressed exclusively in skin, whereas SCD4 is expressed predominantly in the heart. SCD1 and SCD5 has been the only human SCD gene identified and characterized to date (PMID:15907797). The formation of homodimers and oligomers is an intrinsic property of SCD proteins, which may play an important role in regulating the half-life of the SCD enzymes, thus representing a novel regulatory mechanism for SCD enzymes, in addition to the transcriptional and post-translational regulations. A 32-kDa SCD1 degradation product identified may be caused by a major cleavage site at the C-terminus, thus representing a novel degradation product (PMID:15610069).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiale Sun	34557413	Front Oncol	IHC
Haiqing Luo	34486791	Stem Cells	IHC
Qiang Meng	27773935	Acta Pharmacol Sin	

## 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

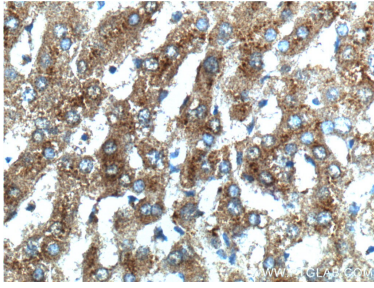
For technical support and original validation data for this product please contact:

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

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 23393-1-AP (SCD Antibody) at dilution of 1:200 (under 40x lens).