

**SCD1 / SCD Antibody (C-Terminus)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS13084****Specification**

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**SCD1 / SCD Antibody (C-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">O00767</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	42kDa KDa

**SCD1 / SCD Antibody (C-Terminus) - Additional Information****Gene ID** 6319**Other Names**

Acyl-CoA desaturase, 1.14.19.1, Delta(9)-desaturase, Delta-9 desaturase, Fatty acid desaturase, Stearoyl-CoA desaturase, SCD

**Target/Specificity**

Human SCD.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

SCD1 / SCD Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**SCD1 / SCD Antibody (C-Terminus) - Protein Information****Name** SCD**Function**

Stearoyl-CoA desaturase that utilizes O(2) and electrons from reduced cytochrome b5 to introduce the first double bond into saturated fatty acyl-CoA substrates (PubMed: [15907797](http://www.uniprot.org/citations/15907797), PubMed: [18765284](http://www.uniprot.org/citations/18765284)). Catalyzes the insertion of a cis double bond at the delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA and stearoyl-CoA (PubMed: [15907797](http://www.uniprot.org/citations/15907797), PubMed: [18765284](http://www.uniprot.org/citations/18765284)). Gives rise to a mixture of 16:1 and 18:1 unsaturated fatty acids (PubMed: [15610069](http://www.uniprot.org/citations/15610069)). Plays an important role in lipid biosynthesis. Plays an important role in regulating the expression of genes that are involved in lipogenesis and in regulating mitochondrial fatty acid oxidation (By similarity). Plays an important role in body energy homeostasis (By similarity). Contributes to the

biosynthesis of membrane phospholipids, cholesterol esters and triglycerides (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein  
{ECO:0000269|PubMed:18765284, ECO:0000305}

#### Tissue Location

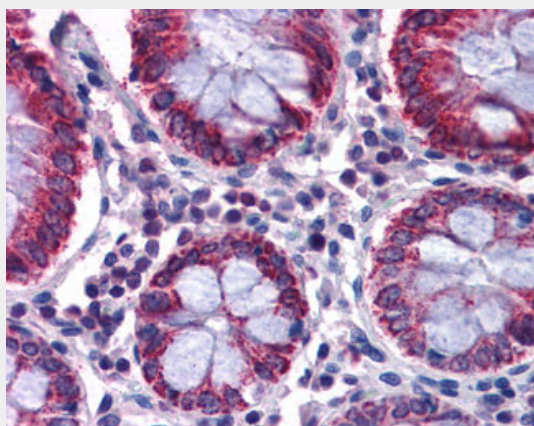
Detected in fetal liver, lung and brain. Highly expressed in adult adipose tissue, and at lower levels in adult brain and lung.

### SCD1 / SCD Antibody (C-Terminus) - Protocols

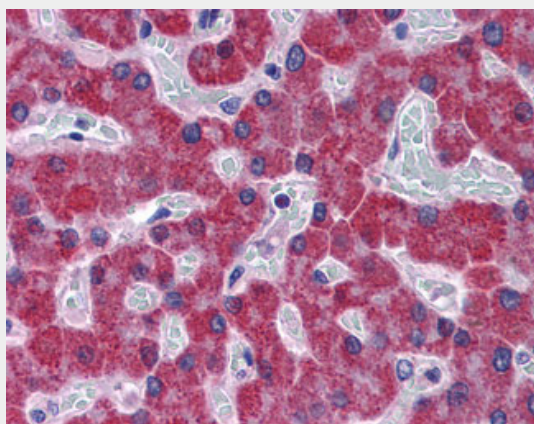
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SCD1 / SCD Antibody (C-Terminus) - Images



Anti-SCD antibody IHC of human colon.



Anti-SCD antibody IHC of human liver.

### **SCD1 / SCD Antibody (C-Terminus) - Background**

Terminal component of the liver microsomal stearyl-CoA desaturase system, that utilizes O<sub>2</sub> and electrons from reduced cytochrome b<sub>5</sub> to catalyze the insertion of a double bond into a spectrum of fatty acyl-CoA substrates including palmitoyl-CoA and stearoyl-CoA.

### **SCD1 / SCD Antibody (C-Terminus) - References**

Al-Jeryan L., et al. Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.  
Zhang L., et al. Biochem. J. 340:255-264(1999).  
Hoshino T., et al. Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.