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Stearoyl-CoA desaturase Antibody (C-Term)

Peptide-affinity purified goat antibody
Catalog # AF2496a

Specification

Stearoyl-CoA desaturase Antibody (C-Term) - Product Information

Application	**IHC, FC**
Primary Accession	O00767
Other Accession	NP_005054.3, 6319
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**41523**

Stearoyl-CoA desaturase Antibody (C-Term) - 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

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Stearoyl-CoA desaturase Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Stearoyl-CoA desaturase Antibody (C-Term) - 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, PubMed: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, PubMed:<a href="http://www.uniprot.org/citations/18765284"

target="_blank">18765284). Gives rise to a mixture of 16:1 and 18:1 unsaturated fatty acids (PubMed: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}

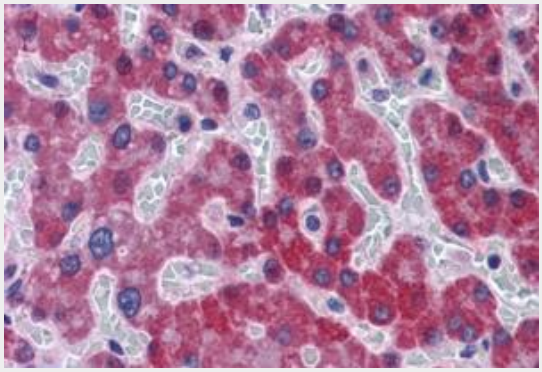
Tissue Location
Detected in fetal liver, lung and brain. Highly expressed in adult adipose tissue, and at lower levels in adult brain and lung.

Stearoyl-CoA desaturase Antibody (C-Term) - Protocols

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

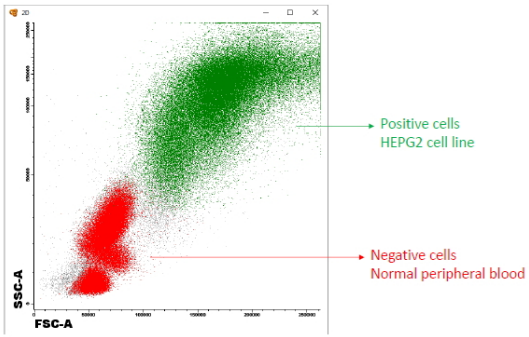
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Stearoyl-CoA desaturase Antibody (C-Term) - Images



AF2496a (5 µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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Antibody (2.5ul) staining of HepG2 cells mixed in with PBL. Detected by fluorescence with PE for SCD in green and with OC515 for CD45 (CYT-450C) in red.

Stearoyl-CoA desaturase Antibody (C-Term) - References

Characterization of human SCD2, an oligomeric desaturase with improved stability and enzyme activity by cross-linking in intact cells. Zhang S, Yang Y, Shi Y. Biochem J. 2004 Dec 20; [Epub ahead of print] PMID: 15610069