

Anti-SCD Antibody

Catalog # AP53832

Product Information

Application	WB
Primary Accession	O00767
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41523

Additional Information

Gene ID	6319
Other Names	Acyl-CoA desaturase; Delta(9)-desaturase; Delta-9 desaturase; Fatty acid desaturase; Stearoyl-CoA desaturase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SCD. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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: 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}

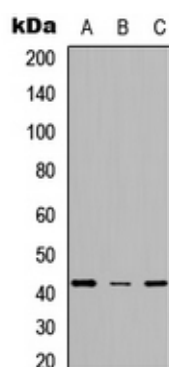
Tissue Location

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

Background

Rabbit polyclonal antibody to SCD

Images



Western blot analysis of SCD expression in HeLa (A), NS-1 (B), PC12 (C) whole cell lysates.

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