

ARG43264 anti-Stearoyl-CoA desaturase antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Stearoyl-CoA desaturase
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Stearoyl-CoA desaturase
Species	Human
Immunogen	Synthetic peptide within aa. 200 to the C-terminus of Human Stearoyl-CoA desaturase (NP_005054.3).
Conjugation	Un-conjugated
Alternate Names	Fatty acid desaturase; SCDOS; MSTP008; Acyl-CoA desaturase; SCD1; EC 1.14.19.1; hSCD1; Stearoyl-CoA desaturase; Delta-9 desaturase; Delta; 9; FADS5

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse liver	
Observed Size	~ 40 kDa	

Properties

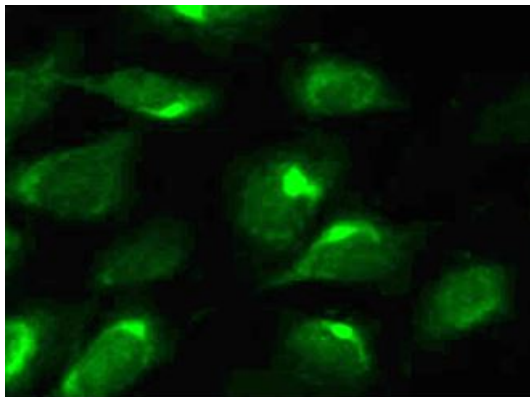
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

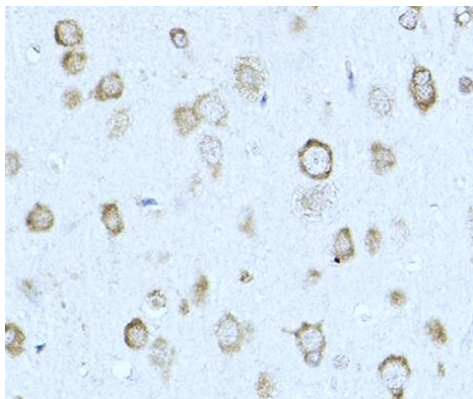
Gene Symbol	SCD
Gene Full Name	stearoyl-CoA desaturase (delta-9-desaturase)
Background	This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. The protein belongs to the fatty acid desaturase family and is an integral membrane protein located in the endoplasmic reticulum. Transcripts of approximately 3.9 and 5.2 kb, differing only by alternative polyadenylation signals, have been detected. A gene encoding a similar enzyme is located on chromosome 4 and a pseudogene of this gene is located on chromosome 17. [provided by RefSeq, Sep 2015]
Function	Stearyl-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). [UniProt]
Calculated Mw	42 kDa
Cellular Localization	Endoplasmic reticulum membrane; Multi-pass membrane protein. [UniProt]

Images



ARG43264 anti-Stearoyl-CoA desaturase antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG43264 anti-Stearoyl-CoA desaturase antibody at 1:100 dilution.



ARG43264 anti-Stearoyl-CoA desaturase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue stained with ARG43264 anti-Stearoyl-CoA desaturase antibody at 1:100 dilution.

ARG43264 anti-Stearoyl-CoA desaturase antibody WB image

Western blot: 25 µg of Mouse liver lysate stained with ARG43264 anti-Stearoyl-CoA desaturase antibody at 1:1000 dilution.

