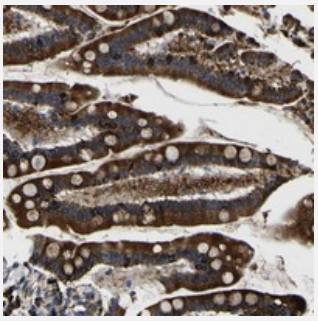
SCD polyclonal antibody

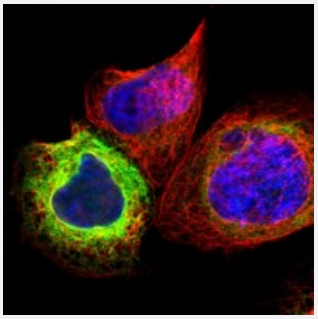
Catalog # PAB20587 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human colon with SCD polyclonal antibody (Cat # PAB20587) shows strong cytoplasmic positivity in glandular cells at 1:50-1:200 dilution.



Immunofluorescence

Immunofluorescent staining of human cell line A-431 with SCD polyclonal antibody (Cat # PAB20587) at 1-4 ug/mL dilution shows positivity in endoplasmic reticulum.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant SCD.
Immunogen	Recombinant protein corresponding to amino acids of human SCD.
Sequence	ISSSYTTTTTITAPPSRVLQNGGDKLETMPLYLEDDIRPDIKDDIYDPTYKDKEGPSPKVEY
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification

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Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:200) Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of human colon with SCD polyclonal antibody (Cat # PAB20587) shows strong cytoplasmic positivity in glandular cells at 1:50-1:200 dilution.

- Immunofluorescence

  Immunofluorescent staining of human cell line A-431 with SCD polyclonal antibody (Cat # PAB20587) at 1-4 ug/mL dilution shows positivity in endoplasmic reticulum.

Gene Info — SCD

Entrez GeneID	6319
Protein Accession#	O00767
Gene Name	SCD
Gene Alias	FADS5, MSTP008, SCD1
Gene Description	stearoyl-CoA desaturase (delta-9-desaturase)
Omim ID	604031
Gene Ontology	Hyperlink

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Gene Summary	Stearoyl-CoA desaturase (SCD; EC 1.14.99.5) is an iron-containing enzyme that catalyzes a rate-limiting step in the synthesis of unsaturated fatty acids. The principal product of SCD is oleic acid, which is formed by desaturation of stearic acid. The ratio of stearic acid to oleic acid has been implicated in the regulation of cell growth and differentiation through effects on cell membrane fluidity and signal transduction. Four SCD isoforms, Scd1 through Scd4, have been identified in mouse. In contrast, only 2 SCD isoforms, SCD1 and SCD5 (MIM 608370), have been identified in human. SCD1 shares about 85% amino acid identity with all 4 mouse SCD isoforms, as well as with rat Scd1 and Scd2. In contrast, SCD5 shares limited homology with the rodent SCDs and appears to be unique to primates (Zhang et al. (1999) [PubMed 10229681]; Wang et al., 2005 [PubMed 15907797]).[supplied by OMIM
Other Designations	OTTHUMP00000020279|acyl-CoA desaturase|delta-9-desaturase|fatty acid desaturase|predicted protein of HQ0998|stearoyl-CoA desaturase

Pathway

- Biosynthesis of unsaturated fatty acids
- PPAR signaling pathway

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis

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