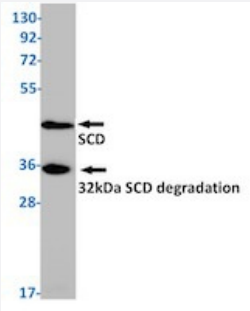
RecomAb™

SCD recombinant monoclonal antibody, clone R04-2K1

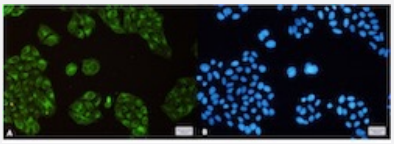
Catalog # RAB01924 Size 100 uL

Applications



Western Blot

Western blot analysis of Hela lysates with SCD recombinant monoclonal antibody, clone R04-2K1 (Cat # RAB01924).



Immunocytochemistry

Immunocytochemical staining of Hela with SCD recombinant monoclonal antibody, clone R04-2K1 (Cat # RAB01924). (A) SCD (green) and (B) DAPI (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human SCD.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human SCD.
Theoretical MW (kDa)	Calculated MW: 42 kD
Reactivity	Human
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	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

- Western Blot

  Western blot analysis of Hela lysates with SCD recombinant monoclonal antibody, clone R04-2K1 (Cat # RAB01924).

- Immunohistochemistry

- Immunocytochemistry

  Immunocytochemical staining of Hela with SCD recombinant monoclonal antibody, clone R04-2K1 (Cat # RAB01924). (A) SCD (green) and (B) DAPI (blue).

- Immunofluorescence

- Immunoprecipitation

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
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 i mplicated in the regulation of cell growth and differentiation through effects on cell membrane fluid ity and signal transduction. Four SCD isoforms, Scd1 through Scd4, have been identified in mous e. In contrast, only 2 SCD isoforms, SCD1 and SCD5 (MIM 608370), have been identified in hum an. SCD1 shares about 85% amino acid identity with all 4 mouse SCD isoforms, as well as with r at 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 1 5907797]).[supplied by OMIM
Other Designations	OTTHUMP00000020279|acyl-CoA desaturase|delta-9-desaturase|fatty acid desaturase|predicte d 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