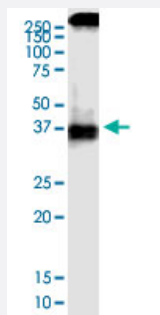


SCD monoclonal antibody (M02), clone 1B7

Catalog # H00006319-M02

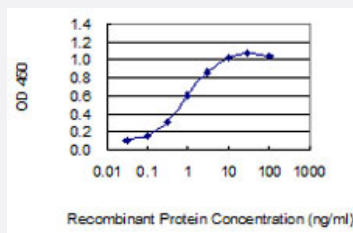
Size 50 ug

Applications



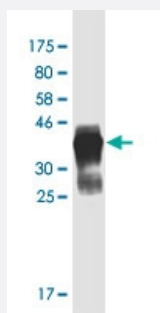
Western Blot (Cell lysate)

SCD monoclonal antibody (M02), clone 1B7. Western Blot analysis of SCD expression in MCF-7.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SCD is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant SCD.

Immunogen	SCD (NP_005054.3, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MPAHLQLQDDISSSYTTTTTITAPPSRVLQNGGDKLETMPPLYLEDDIRPDIKDDIYDPTYKDKEGPSPK VEYVWRNIILMSLLHLGALYGITLIPTCKFYT
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (71); Rat (64)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

SCD monoclonal antibody (M02), clone 1B7. Western Blot analysis of SCD expression in MCF-7.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SCD is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SCD

Entrez GeneID [6319](#)

GeneBank Accession#	NM_005063.4
Protein Accession#	NP_005054.3
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 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](#)