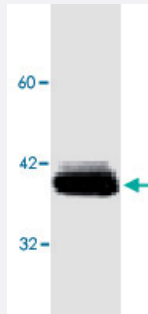


SCD monoclonal antibody, clone CD.E10

Catalog # MAB5546 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of SCD expression in 293 cells with SCD monoclonal antibody, clone CD.E10 (Cat # MAB5546).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant SCD.
Immunogen	Recombinant protein corresponding to full length human SCD.
Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Isotype	IgG2B
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.05% 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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of SCD expression in 293 cells with SCD monoclonal antibody, clone CD.E10 (Cat # MAB5546).

- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SCD

Entrez GeneID [6319](#)

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](#)