

Product datasheet for **AM20836PU-N**

SCD1 (SCD) Mouse Monoclonal Antibody [Clone ID: CD.E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CD.E10
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	Western blot. ELISA. Immunoprecipitation. Immunohistochemistry on frozen sections.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length recombinant protein
Specificity:	This antibody reacts to SCD / SCD1.
Formulation:	PBS, pH 7.4 with 0.05% sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	stearoyl-CoA desaturase
Database Link:	Entrez Gene 6319 Human O00767



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Background:	Stearoyl-CoA desaturase (SCD) is a regulatory enzyme in lipogenesis. The SCD1 gene is tightly regulated by signals such as insulin, leptin, carbohydrate, fatty acids and temperature. The enzyme (mouse 355aa, rat 358aa; ~37 KDa) is constitutively expressed in adipose tissue and is induced in liver in response to fat free, high carbohydrate diet. The SCD-1 expression is higher in female than male mouse. The repression of RNA levels and enzyme activity of hepatic SCD-1 by Leptin has been shown to significantly reduce the triglyceride storage, VLDL production and therefore an increase in fatty acid oxidation. Inhibition of SCD-1 could be of benefit for treatment of obesity, hepatic steatosis and other metabolic disorders.
Synonyms:	Acyl-CoA desaturase, Fatty acid desaturase, Stearoyl-CoA desaturase
Protein Families:	Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids, PPAR signaling pathway