

Anti-SCD1 Monoclonal Antibody

Cat. #: P-318

Immunogen/Specificity:

Full length recombinant protein

Reacts with human and mouse proteins.

Applications :

Western blot, ELISA, IP, and IHC in obesity research. 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.

Formulation

1mg/ml in PBS, pH 7.4 with 0.05% sodium azide.

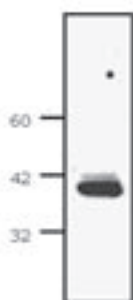
Frozen liquid.

Clone Number: CD.E10

Isotype: IgG2B

Species: Human, Mouse

Storage and Stability: Stable for 1 year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. Aliquot will be stable at 4°C for 3 months.



Western blot analysis of SCD1 expression in 293 cells.