



PRODUCT DATA SHEET

Product: Anti-SCD-1 mAb, clone CD.E10

Cat. No.: MC-386 (100 µg)

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 355 aa and rat 358 aa; ~ 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 mice. 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.

Specificity:

Recognizes SCD-1.

Species Reactivity:

Human and mouse. Others species not tested.

Ig Isotype:

Mouse IgG_{2b}

Immunogen:

Full-length recombinant protein.

Format:

100 µg of liquid monoclonal antibody at 1 mg/mL in PBS, pH 7.4, with 0.05% sodium azide.

Storage:

Store at 4°C short term and at -20°C long term. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid freeze/thaw cycles.

Applications:

- Western blot
- Immunoprecipitation
- Immunohistochemistry
- ELISA

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.