

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse SCD-1 in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 428208
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse SCD-1 Met1-Ser355 Accession # P13516
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Stearoyl-CoA Desaturase 1 (SCD-1) is a four-transmembrane endoplasmic reticulum protein that is a rate-limiting enzyme in the formation of triglycerides, cholesterol esters and phospholipids from saturated fatty acids. Its expression in adipose and liver is enhanced by insulin and certain dietary sugars and fats, and down-regulated by TNF-α. SCD-1 is one of four iron-containing murine stearoyl-CoA desaturases that share 79-88% aa identity. The 355 aa, predicted 41 kDa mouse SCD-1 shares 92% and 84% aa identity with rat and human SCD-1, respectively.

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