

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse SCD-1 in direct ELISAs and Western blots.                                                                                                                                                                                                                     |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 428208                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse SCD-1 Met1-Ser355<br>Accession # P13516                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

## PRODUCT SPECIFIC NOTICES

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