

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Perilipin-3 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) Perilipin-2 or rhPerilipin-5 is observed.                                                                                                   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 779103                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Perilipin-3<br>Met1-Lys434<br>Accession # O60664                                                                                                                                                                                  |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | 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

M6PRBP1 (mannose 6-phosphate receptor binding protein), gene name PLIN3 (Perilipin-3), also called TIP47 (tail interacting protein of 47 kDa) or PP17 (placental protein 17), is a 47 kDa intracellular transport protein that belongs to the PAT (Perilipin/Adipophilin/TIP47) family of molecules. The 434 amino acid (aa) human Perilipin-3, which shares approximately 75% aa sequence identity with mouse and rat Perilipin-3, contains a four-helix bundle thought to interact with membranes, and may be phosphorylated and acetylated. A 251 aa form (isoform A) has an alternate start site at aa 184 of the 434 aa form (isoform B). Perilipin-3 is normally found predominantly in the cytoplasm. It is required for uptake of mannose-6 phosphate receptors into endosomes. In the presence of excess lipids, such as in macrophage-derived foam cells, Perilipin-3 may transfer free fatty acids to lipid droplets, promoting their growth.

## PRODUCT SPECIFIC NOTICES

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