

DESCRIPTION

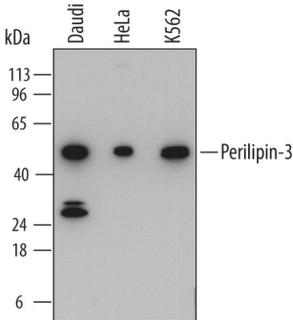
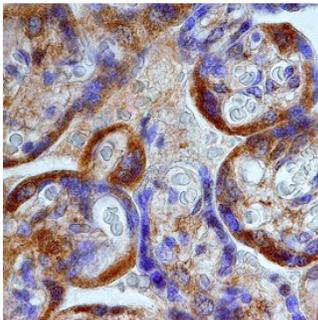
Species Reactivity	Human
Specificity	Detects human Perilipin-3 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) Perilipin-2 or rhPerilipin-5 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 779103
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Perilipin-3 Met1-Lys434 Accession # O60664
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.25 µg/mL	Daudi human Burkitt's lymphoma cell line, HeLa human cervical epithelial carcinoma cell line, and K562 human chronic myelogenous leukemia cell line
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry	Detection of Human Perilipin-3 by Western Blot	Immunohistochemistry
	<p>Detection of Human Perilipin-3 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line, HeLa human cervical epithelial carcinoma cell line, and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 0.25 µg/mL of Mouse Anti-Human Perilipin-3 Monoclonal Antibody (Catalog # MAB76641) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Perilipin-3 at approximately 47 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	 <p>Perilipin-3 in Human Placenta. Perilipin-3 was detected in immersion fixed paraffin-embedded sections of human placenta using Mouse Anti-Human Perilipin-3 Monoclonal Antibody (Catalog # MAB76641) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of syncytiotrophoblast cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.