

DESCRIPTION

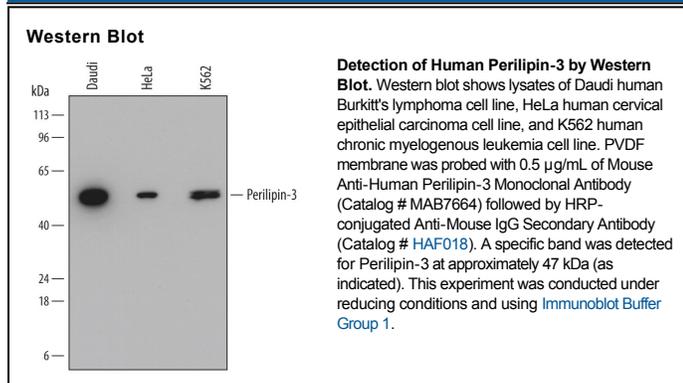
Species Reactivity	Human
Specificity	Detects human Perilipin-3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Perilipin-2 or rhPerilipin-5 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 779119
Purification	Protein A or G purified from hybridoma culture supernatant
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	0.5 µg/mL	See Below

DATA



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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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.