

Human Perilipin-2 Antibody

Monoclonal Mouse IgG₁ Clone # 788616 Catalog Number: MAB76341

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Perilipin-2 in direct ELISAs.		
Source	Monoclonal Mouse IgG ₁ Clone # 788616		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Perilipin-2 Met1-His437 Accession # Q99541		
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 either lyophilized or as a 0.2 μm filtered solution in PBS.		

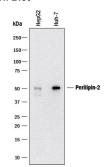
APPLICATIONS

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	1 μg/mL	See Below
Immunocytochemistry	8-25 μg/mL	See Below
Immunohistochemistry	5-25 μg/mL	See Below

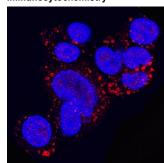
DATA

Western Blot



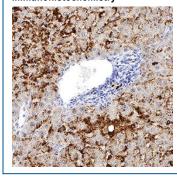
Detection of Human Perilipin-2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and Huh-7 human hepatoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Perilipin-2 Monoclonal Antibody (Catalog # MAB76341) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Perilipin-2 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Perilipin-2 in HepG2 Human Cell Line.
Perilipin-2 was detected in immersion fixed
HepG2 human hepatocellular carcinoma cell
line using Mouse Anti-Human Perilipin-2
Monoclonal Antibody (Catalog # MAB76341)
at 8 μg/mL for 3 hours at room temperature.
Cells were stained using the
NorthernLights™ 557-conjugated AntiMouse IgG Secondary Antibody (red;
Catalog # NL007) and counterstained with
DAPI (blue). Specific staining was localized
to cytoplasm. View our protocol for
Fluorescent ICC Staining of Cells on
Coverslips.

Immunohistochemistry



Perilipin-2 in Human Liver. Perilipin-2 was detected in immersion fixed paraffinembedded sections of human liver using Mouse Anti-Human Perilipin-2 Monoclonal Antibody (Catalog # MAB76341) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

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.

- 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.

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BACKGROUND

Perilipin-2 (PLIN2), also known as Adipophilin (ADFP) and Adipose Differentiation-Related Protein (ADRP), is a widely expressed 52 kDa acylated protein that associates with membranes and cytoplasmic lipid droplets. It is upregulated during adipocyte differentiation and is a major component of milk fat globules. Perilipin-2 promotes the cellular uptake and accumulation of long chain fatty acids and regulates the intracellular distribution of phospholipids. It promotes hepatic insulin resistance in response to a high fat diet. Human Perilipin-2 shares 82% and 79% as sequence identity with mouse and rat Perilipin-2, respectively.

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