

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Perilipin-2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 788620
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Perilipin-2 Met1-His437 Accession # Q99541
<b>Formulation</b>	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.

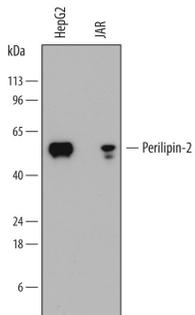
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.2 µg/mL	See Below
<b>Simple Western</b>	4 µg/mL	See Below

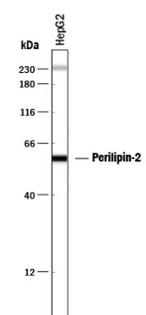
## DATA

**Western Blot**



**Detection of Human Perilipin-2 by Western Blot.** Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and JAR human choriocarcinoma cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human Perilipin-2 Monoclonal Antibody (Catalog # MAB7634) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Perilipin-2 at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Simple Western**



**Detection of Human Perilipin-2 by Simple Western™.** Simple Western lane view shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Perilipin-2 at approximately 58 kDa (as indicated) using 4 µg/mL of Mouse Anti-Human Perilipin-2 Monoclonal Antibody (Catalog # MAB7634). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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% aa sequence identity with mouse and rat Perilipin-2, respectively.