

DESCRIPTION	
Species Reactivity	Human/Rat
Specificity	Detects human and rat FABP1/L-FABP in direct ELISAs and Western blots. In sandwich immunoassays, it is specific for human FABP1/L-FABP.
Source	Monoclonal Mouse IgG ₁ Clone # 965608
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FABP1/L-FABP Met1-Ile127 Accession # P07148
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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.							
	<table border="1"> <thead> <tr> <th>Recommended Concentration</th> <th>Sample</th> </tr> </thead> <tbody> <tr> <td>1 µg/mL</td> <td>See Below</td> </tr> <tr> <td>10 µg/mL</td> <td>See Below</td> </tr> </tbody> </table>	Recommended Concentration	Sample	1 µg/mL	See Below	10 µg/mL	See Below
Recommended Concentration	Sample						
1 µg/mL	See Below						
10 µg/mL	See Below						
Western Blot	1 µg/mL						
Simple Western	10 µg/mL						
ELISA	This antibody functions as an ELISA capture antibody for human FABP1/L-FABP when paired with Mouse Anti-Human FABP1/L-FABP Monoclonal Antibody (Catalog # MAB29642). <i>This product is intended for assay development on various assay platforms requiring antibody pairs.</i>						

DATA	
<p>Western Blot</p> <p>Detection of Human and Rat FABP1/L-FABP by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, COLO 205 human colorectal adenocarcinoma cell line, Hep3B human hepatocellular carcinoma cell line, H4-II-E-C3 rat hepatoma cell line, and rat liver tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Rat FABP1/L-FABP Monoclonal Antibody (Catalog # MAB29643) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for FABP1/L-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Simple Western</p> <p>Detection of Rat FABP1/L-FABP by Simple Western™. Simple Western lane view shows lysates of rat liver tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP1/L-FABP at approximately 16 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human/Rat FABP1/L-FABP Monoclonal Antibody (Catalog # MAB29643). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p>

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. <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

FABP1, also known as liver FABP (L-FABP, Z-protein and squalene-and sterol-carrier protein [SCP]) is a member of the intracellular FABP family. It is highly expressed in the liver, intestine, kidney and lung. FABP1 binds free fatty acids and their co-enzyme A derivatives and may be involved in intracellular lipid transport.