

DESCRIPTION	
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat FABP3/H-FABP in Western blots. In Western blots, approximately 15% cross-reactivity with recombinant rat (rr) FABP2 is observed and no cross-reactivity with rrFABP1, recombinant mouse (rm) FABP4, or rmFABP5 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 242305
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human FABP3/H-FABP Met1-Ala133 Accession # P05413
<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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.5 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>Simple Western</b>	5 µg/mL	See Below

**DATA**

**Western Blot**

**Detection of Human, Mouse, and Rat FABP3/H-FABP by Western Blot.** Western blot shows lysates of human heart tissue, human skeletal muscle tissue, mouse heart tissue, and rat heart tissue. PVDF membrane was probed with 0.5 µg/mL of Rat Anti-Human/Mouse/Rat FABP3/H-FABP Monoclonal Antibody (Catalog # MAB1678) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for FABP3/H-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunohistochemistry**

**FABP3/H-FABP in Human Heart.** FABP3/H-FABP was detected in immersion fixed paraffin-embedded sections of human heart using Rat Anti-Human/Mouse/Rat FABP3/H-FABP Monoclonal Antibody (Catalog # MAB1678) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counter-stained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

**Simple Western**

**Detection of Human and Mouse FABP3/H-FABP by Simple Western™.** Simple Western lane view shows lysates of human heart tissue and mouse heart tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP3/H-FABP at approximately 19 kDa (as indicated) using 5 µg/mL of Rat Anti-Human FABP3/H-FABP Monoclonal Antibody (Catalog # MAB1678) followed by 1:50 dilution of HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<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

Human FABP3, also known as FABP-Heart (H-FABP), FABP-Muscle (M-FABP) and mammary-derived growth inhibitor (MDGI), is a member of the intracellular FABP family. It plays a role in the transport of long chain fatty acids in the cytoplasm.