

## DESCRIPTION

<b>Species Reactivity</b>	Mouse/Rat
<b>Specificity</b>	Detects mouse and rat FABP2/I-FABP in Western blots. Detects rat FABP2/I-FABP in direct ELISAs. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant rat FABP1, recombinant human FABP3, recombinant mouse (rm) FABP4, and rmFABP5 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant rat FABP2/I-FABP Met1-Glu132 Accession # P02693
<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.

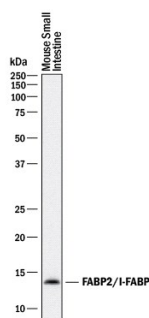
## APPLICATIONS

**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>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

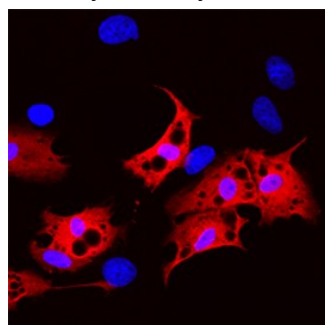
## DATA

### Western Blot



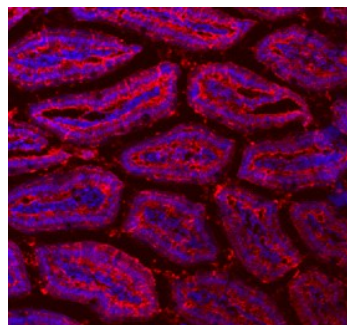
**Detection of Mouse FABP2/I-FABP by Western Blot.** Western blot shows lysates of mouse small intestine tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse/Rat FABP2/I-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1486) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for FABP2/I-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Immunocytochemistry



**FABP2/I-FABP in Rat Mesenchymal Stem Cells.** FABP2/I-FABP was detected in immersion fixed rat mesenchymal stem cells differentiated to adipocytes using Goat Anti-Mouse/Rat FABP2/I-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1486) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

### Immunohistochemistry



**FABP2/I-FABP in Mouse Intestine.** FABP2/I-FABP was detected in immersion fixed frozen sections of adult mouse intestine using Goat Anti-Mouse/Rat FABP2/I-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1486) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to intestinal epithelia. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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

FABP2, also named I-FABP and gFABP, is a member of the intracellular fatty acid binding protein family. It is highly expressed in the intestine. FABP2 binds fatty acid in a non-covalent 1:1 complex to chaperone the lipids to cellular enzymes for metabolism and signal transduction.