Mouse/Rat FABP2/I-FABP Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1486

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	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.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant rat FABP2/I-FABP Met1-Glu132 Accession # P02693
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.

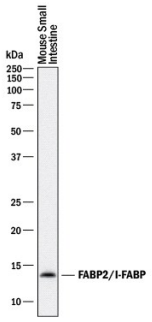
APPLICATIONS

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	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	20 µg/mL	See Below

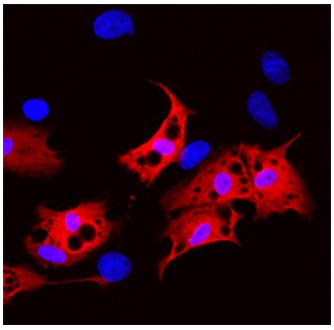
DATA

Western Blot



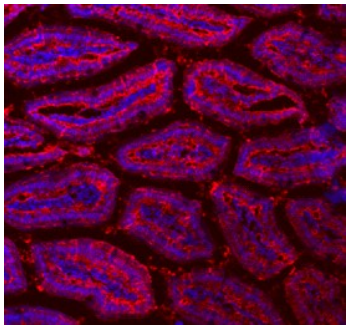
Detection of Mouse FABP2/I-FABP by Western Blot. Western blot shows lysates of mouse small intestine tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse/Rat FABP2/I-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1486) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (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



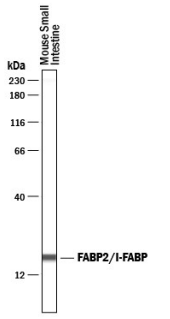
FABP2/I-FABP in Rat Mesenchymal Stem Cells. FABP2/I-FABP was detected in immersion fixed rat mesenchymal stem cells differentiated to adipocytes using Goat Anti-Mouse/Rat FABP2/I-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1486) at 10 µg/mL for 3 hours at room temperature. Cells were 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.

Simple Western



Detection of Mouse FABP2/I-FABP by Simple Western™. Simple Western lane view shows lysates of mouse small intestine tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP2/I-FABP at approximately 18 kDa (as indicated) using 20 µg/mL of Goat Anti-Mouse/Rat FABP2/I-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1486) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

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.

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