

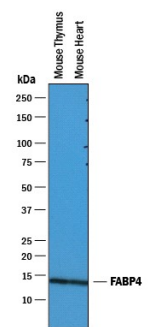
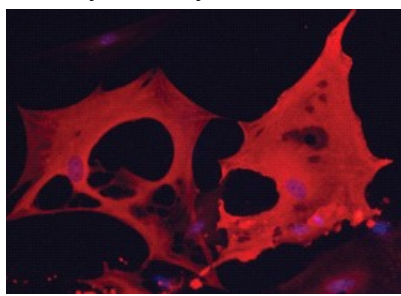
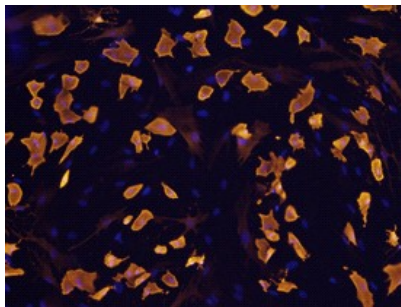
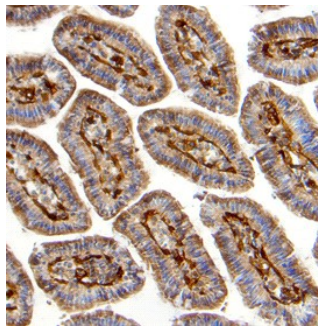
DESCRIPTION	
Species Reactivity	Mouse/Rat
Specificity	Detects mouse FABP4 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse (rm) FABP5 and rmFABP9 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse FABP4 Met1-Ala132 Accession # P04117
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

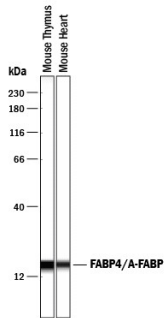
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.25 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	2.5 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Mouse FABP4/A-FABP by Western Blot. Western blot shows lysates of mouse thymus tissue and mouse heart tissue. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Mouse/Rat FABP4/A-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1443) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for FABP4/A-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>FABP4 in Mouse Adipocytes. FABP4 was detected in immersion fixed mouse mesenchymal stem cell-derived adipocytes using 10 µg/mL Goat Anti-Mouse/Rat FABP4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1443) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
<p>Immunocytochemistry</p>  <p>FABP4 in Rat Mesenchymal Stem Cells. FABP4 was detected in immersion fixed rat mesenchymal stem cells differentiated to adipocytes using Goat Anti-Mouse/Rat FABP4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1443) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>	<p>Immunohistochemistry</p>  <p>FABP4 in Mouse Intestine. FABP4 was detected in perfusion fixed frozen sections of mouse intestine using Goat Anti-Mouse/Rat FABP4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1443) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the plasma membrane of epithelial cells in intestinal glands. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>

Simple Western



Detection of Mouse FABP4/A-FABP by Simple Western™. Simple Western lane view shows lysates of mouse thymus tissue and mouse heart tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP4/A-FABP at approximately 17 kDa (as indicated) using 2.5 µg/mL of Goat Anti-Mouse/Rat FABP4/A-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1443) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). 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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

FABP-4 (fatty acid binding protein-4; also Adipocyte-type FABP, ALBP and aP2) is a 14-15 kDa member of the fatty acid binding protein family, calycin superfamily of molecules. It is expressed by adipocytes, macrophages, monocyte-derived DC and myoepithelial cells, and is known to serve as a carrier for select PPAR γ fatty acid ligands as they enter the nucleus. These ligands, or fatty acids, facilitate PPAR γ -mediated gene transcription. Mouse FABP-4 is 132 amino acids (aa) in length. It is a two β -sheet molecule that contains an NLS (aa 22-32) and a fatty acid binding segment (aa 127-129). Mouse FABP-4 is 94% and 92% aa identical to rat and human FABP-4, respectively.