

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects rat FABP1/L-FABP in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant rat FABP2, recombinant human FABP3, recombinant mouse (rm) FABP4, and rmFABP5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant rat FABP1/L-FABP Met1-Ile127 Accession # P02692
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 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	0.2-0.5 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	Immersion fixed rat liver cells
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	10 µg/mL	See Below

DATA

Western Blot

Detection of Human, Mouse, and Rat FABP1/L-FABP by Western Blot. Western blot shows lysates of H4-II-E-C3 rat hepatoma cell line, mouse liver tissue, human liver tissue, and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse/Rat FABP1/L-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1565) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for FABP1/L-FABP at approximately 13 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot

Detection of Rat FABP1/L-FABP by Western Blot. Western blot shows lysate of rat liver tissue. PVDF membrane was probed with 0.2 µg/mL of Goat Anti-Human/Mouse/Rat FABP1/L-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1565) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for FABP1/L-FABP at approximately 13 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry

FABP1 in Rat Liver. FABP1 was detected in perfusion fixed frozen sections of rat liver using Goat Anti-Human/Mouse/Rat FABP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1565) at 15 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). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

Simple Western

Detection of Mouse and Rat FABP1/L-FABP by Simple Western™. Simple Western lane view shows lysates of H4-II-E-C3 rat hepatoma cell line and mouse 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 Goat Anti-Human/Mouse/Rat FABP1/L-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1565) 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	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, their co-enzyme A derivatives, and may be involved in intracellular lipid transport.