# RD SYSTEMS a biotechne brand

# Human/Mouse/Rat FABP1/L-FABP

## Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2964

DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human FABP1/L-FABP in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant huma FABP2, 3, 4, 5, 7, and recombinant mouse FABP9 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli</i> -derived recombinant human FABP1/L-FABP Met1-Ile127 Accession # P07148	
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
Immunohistochemistry	5-15 μg/mL	See Below
Simple Western	5-10 μg/mL	See Below

### DATA



#### Detection of Human FABP1/L-FABP by Western Blot. Western blot shows lysates of human kidney tissue, human colon tissue, and human kidney tissue. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Human/ Mouse/Rat FABP1/L-FABP Antigen Affinitypurified Polyclonal Antibody (Catalog # AF2964) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for FABP1/L-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Western Blot



Detection of Human, Mouse, and Rat FABP1/L-FABP by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, mouse liver tissue, and rat liver tissue. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Human/Mouse/Rat FABP1/L-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2964) followed by HRPconjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for FABP1/L-FABP at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.





FABP1 in Human Liver. FABP1 was detected in immersion fixed paraffin-embedded sections of human liver using Goat Anti-Human/Mouse/Rat FABP1/L-FABP Antigen Affinitypurfied Polyclonal Antibody (Catalog # AF2964) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CT5008) 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 Paraffin-embedded Tissue Sections.





Detection of Human FABP1/L-FABP by Simple Western<sup>TM</sup>. Simple Western lane view shows lysates of human liver tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP1/L-FABP at approximately 14 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse/Rat FABP1/L-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2964). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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# Human/Mouse/Rat FABP1/L-FABP

# Antibody

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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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <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

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.

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