

DESCRIPTION

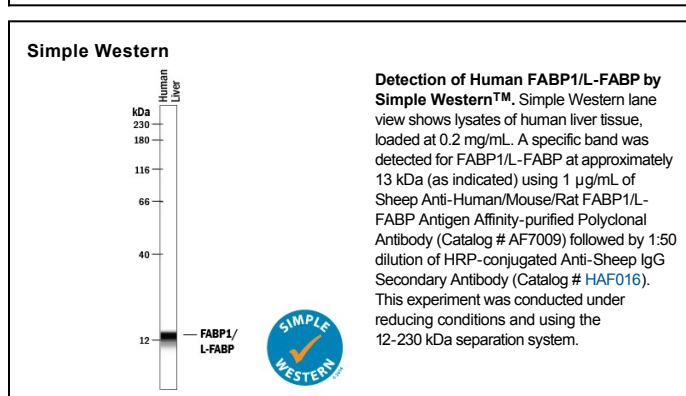
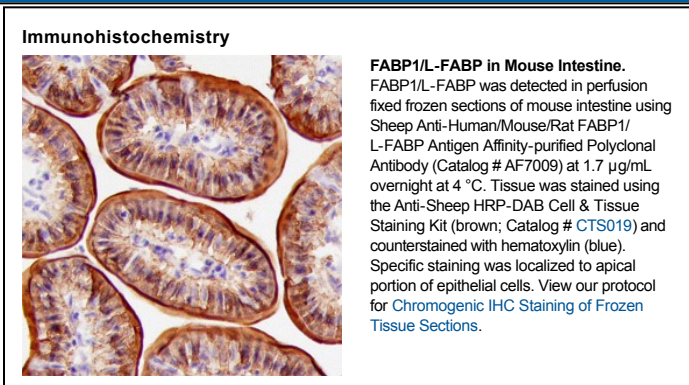
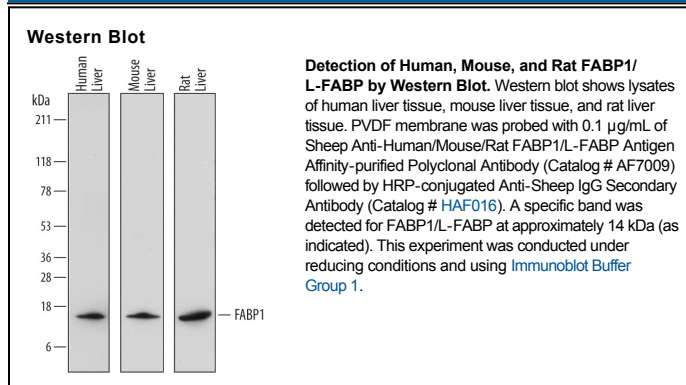
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat FABP1/L-FABP in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant mouse FABP1/L-FABP Met1-Ile127 Accession # P12710
Formulation	Lyophilized 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	0.1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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 (fatty acid binding protein-1; also Liver-type fatty acid binding protein/L-FABP and 14 kDa Selenium-binding protein) is a 14-15 kDa intracellular member of the fatty acid binding protein family, calycin superfamily of molecules. It is expressed by intestinal epithelium and hepatocytes, and is known to bind both cholesterol and long-chain fatty acids in the cytosol. As fatty acids diffuse across the plasma membrane, they are sequestered by FABP1, facilitating fatty acid diffusion into the cell. FABP1 also binds bile acids and cholesterol, and transports cholesterol from one membrane compartment to another. Mouse FABP1 is 127 amino acids (aa) in length. It is a two β -sheet molecule that contains an acetylated initiating methionine. Full-length mouse FABP1 shares 94% and 84% aa identity with rat and human FABP1, respectively.