

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects human, mouse, and rat FABP1/L-FABP in direct ELISAs and Western blots.                                                                                                                                                                                              |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | E. coli-derived recombinant mouse FABP1/L-FABP<br>Met1-Ile127<br>Accession # P12710                                                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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  $\beta$ -sheet molecule that contains an acetylated initiating methionine. Full-length mouse FABP1 shares 94% and 84% aa identity with rat and human FABP1, respectively.

#### PRODUCT SPECIFIC NOTICES

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