

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FABP8 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human FABP1, 2, 3, 4, 5, 6, 7, or 9 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 631306
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FABP8/M-FABP Ser2-Val132 Accession # P02689
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

BACKGROUND

FABP8 (fatty acid binding protein-8; also M [myelin]-FABP, P2 and PMP2) is a 15 kDa (predicted) member of the fatty acid binding protein family, calycin superfamily of molecules. It is found in Schwann cells, presumably on the cytoplasmic face of the plasma membrane where it may contribute to fatty acid transport across myelin. Functionally, FABP8 has a high affinity for U-shaped fatty acids such as oleic and palmitic acid. Human FABP8 is 132 amino acids (aa) in length and exhibits two layers of antiparallel β -strands that envelope a hydrophobic pocket for lipid binding. Arg107 plus Arg127-Ile128-Tyr129 participate in fatty acid binding. Full length human FABP8 shares 87% and 95% aa identity with mouse and rabbit FABP9, respectively.

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