

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 631306
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human FABP8/M-FABP Ser2-Val132 Accession # P02689
<b>Formulation</b>	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.

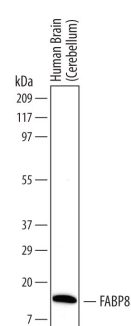
## APPLICATIONS

**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
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

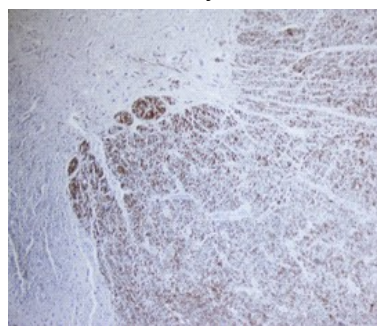
## DATA

### Western Blot



**Detection of Human FABP8/M-FABP by Western Blot** Western blot shows lysates of human brain (cerebellum) tissue. PVDF Membrane was probed with 2 µg/mL of Mouse Anti-Human FABP8/M-FABP Monoclonal Antibody (Catalog # MAB5866) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for FABP8/M-FABP at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Immunohistochemistry



#### FABP8/M-FABP in Human Spinal Cord.

FABP8/M-FABP was detected in immersion fixed paraffin-embedded sections of human spinal cord using Mouse Anti-Human FABP8/M-FABP Monoclonal Antibody (Catalog # MAB5866) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counter-stained with hematoxylin (blue). Specific staining was localized to white matter. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <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

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.