

ORDERING INFORMATION

Catalog Number: AF5866

Lot Number: CCYA01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human FABP8

Immunogen: *E. coli*-derived rhFABP8

Ig Type: sheep IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

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 FABP8, respectively.

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human FABP8 (rhFABP8; aa 2 - 132; Accession # P02689). Human FABP8 specific IgG was purified by human FABP8 affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human FABP8 in the applications listed below. In direct ELISAs, this antibody shows less than 2% cross-reactivity with rhFABP2, 3, 4, 5, 6, 7 and 9.

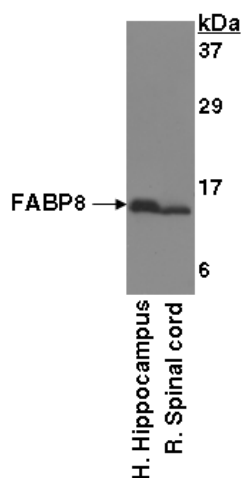
Applications

Western blot - An antibody concentration of 1.0 µg/mL is recommended.

Immunohistochemistry - This antibody will detect FABP8 in cells and tissues. The working dilution is 2 - 15 µg/mL. Antigen retrieval is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human FABP8. The detection limit for rhFABP8 is approximately 2 ng/well.

Optimal dilutions should be determined by each laboratory for each application.



Detection of FABP8 with AF5866.

Tissue lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL sheep anti-hFABP8.