

ORDERING INFORMATION

Catalog Number: AF1486

Lot Number: ISB01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: rat FABP2

Immunogen: *E. coli*-derived rrFABP2

Ig Type: rat FABP2 specific goat IgG

Applications: Direct ELISA
Western blot
Immunohistochemistry

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant rat Fatty Acid Binding Protein 2 (rrFABP2). Rat FABP2 specific IgG was purified by rat FABP2 affinity chromatography. FABP2, also named I-FABP and gFABP, is a member of the intracellular fatty acid binding protein family. It is highly expressed in the intestine. FABP2 binds fatty acid in a non-covalent 1:1 complex to chaperone the lipids to cellular enzymes for metabolism and signal transduction.

Formulation

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

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 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 rat FABP2 in direct ELISAs and western blots. In these formats, this antibody shows less than 5% cross-reactivity with rrFABP1, rhFABP3, rmFABP4 and rmFABP5.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect rat FABP2. The detection limit for rrFABP2 is approximately 0.7 ng/well.

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect rat FABP2. The detection limit for rrFABP2 is approximately 2 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody can be used with the appropriate secondary reagents at a concentration of 5 - 10 µg/mL in fixed cells. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 min., then blocked with 0.1% Triton X-100, 1% BSA and 10% normal donkey serum in PBS at room temperature for 45 min. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red coupled anti-goat IgG or another appropriate secondary antibody at room temperature in the dark for an hour. Between each step, cells were washed with 0.1% BSA in PBS.

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