



Biotinylated Anti-human FABP3 Antibody

ORDERING INFORMATION

Catalog Number: BAF1678

Lot Number: JNR01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human FABP3

Immunogen: *E. coli*-derived rhFABP3

Ig Type: human FABP3 specific sheep IgG

Applications: Western blot
Immunohistochemistry

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Fatty Acid Binding Protein 3 (rhFABP3). Human FABP3 specific IgG was purified by human FABP3 affinity chromatography and then biotinylated. Human FABP3, also known as FABP-Heart (H-FABP), FABP-Muscle (M-FABP) and mammary derived growth inhibitor (MDGI), is a member of the intracellular FABP family. It plays a role in the transport of long chain fatty acids in the cytoplasm.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/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 use as a detection antibody in human FABP3 western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human FABP3. The detection limit for rhFABP3 is approximately 5 ng/lane and 2 ng/lane under non-reducing and reducing conditions, respectively. In this format, this antibody shows approximately 40% cross-reactivity with rmFABP4, 20% cross-reactivity with rrFABP1 and 10% cross-reactivity with rrFABP2 and rmFABP5.

Immunohistochemistry - This antibody has been tested on frozen fetal heart tissue sections and can be used with the appropriate secondary reagents at the concentration of 5 - 10 µg/mL. Sections were fixed with 4% paraformaldehyde in PBS at room temperature for 20 minutes, then blocked with 0.1% Triton X-100, 10% normal donkey serum of PBS and 1% BSA at room temperature for 45 minutes. After blocking, sections were incubated with diluted primary antibody overnight at 4° C and sequentially with Rhodamine Red coupled streptavidin or another appropriate reagent at room temperature in the dark for an hour. Between each step, sections were washed with 0.1% BSA in PBS.

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

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