



## Monoclonal Anti-human FABP2 Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB30781

**Clone:** 323730

**Lot Number:** CCOI01

**Size:** 500 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human FABP2

**Immunogen:** *E. coli*-derived rhFABP2

**Ig class:** mouse IgG,

**Recommended Application:**  
ELISA capture

### Background

Human FABP2 specific IgG was purified by human FABP2 affinity chromatography and then biotinylated. FABP2, also known as intestinal fatty acid binding protein (I-FABP or FABPI) and gut FABP (gFABP), is a member of the cytosolic fatty acid binding protein family. FABP2 mediates the absorption and intracellular transport of dietary long-chain fatty acids. Genetic variations of FABP2 are implicated in obesity and Type II diabetes. Human FABP2 shares 78%, 82% and 86% amino acid sequence identity with mouse, rat and canine FABP2, respectively.

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived, recombinant human FABP2 (rhFABP2; aa 1 - 132; Accession # P12104 ). The IgG fraction of the tissue culture supernatant was purified by Protein G 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 1 mL of PBS is used, the antibody concentration will be 500 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 captures human FABP2 in sandwich ELISAS. In this format, no cross-reactivity or interference was observed with rhFABP1, 3, 5, 6, 7, 8, 9, rmFABP4, 9, or rrFABP2.

### Application

**ELISA capture** - This product can be used as a capture reagent in a human FABP2 sandwich immunoassay in combination with biotinylated human FABP2 detection antibody (Cat. # BAF3078) and recombinant human FABP2 (Cat. # 2694-CL) as the standard. The suggested coating concentration range is 2 - 8 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at [www.RnDSystems.com/go/MAPELISA](http://www.RnDSystems.com/go/MAPELISA).

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