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# Certificate of Analysis and Data Sheet Rabbit Anti-Human FABP3 Antibody

**Catalog No.**  
130-10061

**Isotype:**  
Rabbit Ig G

**Species:**  
Human

**Accession No:**  
P05413

## Description

FABP are thought to play a role in the intracellular transport of long-chain fatty acids and their acyl-CoA esters. FABPs play key roles as transport vehicles of fatty compounds throughout the cytoplasm. In addition to maintain the levels of cellular membrane fatty acids, FABP family members are found to function in the modulation of cell growth and differentiation and in the modulation of specific enzymes. Human FABP3, one of the FABPs, is present in a wide variety of tissues with the highest concentrations in cardiac and skeletal muscle. FABP3 has been used as a serological biomarker of cardiac injury.

## Applications

**Table Summary of antibody applications and working conditions**

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:40000
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Preparation**

Immunogen was recombinant protein derived from human FABP3. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

### **Binding Activity**

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat FABP3 was not tested yet.

### **Reconstitution**

Supplied as lyophilized and purified antibody originally containing PBS, without preservative stabilizers, such as sodium azide. Reconstitute the antibody with sterile 1 X PBS. The final concentration is 1 mg/ml. **Avoid repeated freeze-thaw cycles.**

### **Storage**

The antibody is stable for years from the data of receipt when stored at -20 °C to -70 °C. Reconstituted antibody (suggesting with sterile PBS) can be aliquoted and stored frozen at -20 °C to -70 °C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored at 4 °C for 1 month. Store at -20 °C, if not intended for use within a month, keep it at 4 °C and minimize freezing and thawing when use.

### **Related products**

1. Recombinant Human Fatty Acid Binding Protein 3 (cat# 230-00037)
2. Recombinant Human Fatty Acid Binding Protein-3 (cat#228-10424)

### **Reference**

Shin HD et al.. (2003) Polymorphisms in fatty acid-binding protein-3 (FABP3) - putative association with type 2 diabetes mellitus. Hum Mutat. 22(2):180.

Pritt ML et al.. (2008) Fabp3 as a biomarker of skeletal muscle toxicity in the rat: comparison with conventional biomarkers. Toxicol Sci. 103(2):382-96.

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