

# Recombinant human FABP2/I-FABP protein

Catalog Number: ATGP0300

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-132aa

### UniProt No.

P12104

### NCBI Accession No.

NP\_000125

### Alternative Names

Intestinal fatty acid binding protein 2, Intestinal fatty acid binding protein 2, FABPI, I-FABP, Intestinal fatty acid binding protein 2 FABP 2, FABP2, Fatty acid binding protein, Fatty acid binding protein 2 intestinal, Fatty acid binding protein intestinal, I FABP, IFABP, Intestinal fatty acid binding protein 2, MGC133132, Fatty Acid Binding Protein-2

## PRODUCT SPECIFICATION

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### Molecular Weight

17.3 kDa (152aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

FABP2, also known as intestinal fatty acid binding protein 2 (I-FABP), is expressed in the epithelium of the small

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intestine by mature enterocytes. FABP2 is thought to facilitate of cellular uptake and transport of long-chain fatty acids within enterocytes and may also help maintain energy homeostasis by functioning as a lipid sensor. This protein binds saturated long-chain fatty acid with a high affinity, but binds with a low affinity to unsaturated long-chain fatty acid. The Ala to Thr substitution at residue 54 of FABP2 is associated with higher total cholesterol, with stroke incidence, elevation of fasting and postprandial triglyceride, insulin resistance, and higher nonesterified fatty acid (NEFA) concentrations. Recombinant human FABP2, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

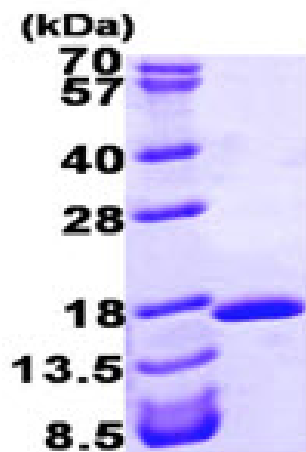
MGSSHHHHHH SSSLVPRGSH MAFDSTWKVD RSENYDKFME KMGVNIVKRK LAAHDNLKLT ITQEGNKFTV KESSAFRNIE VVFLGVTFN YNLADGTELR GTWSLEGNKL IGKFKRTDNG NELNTVREII GDELVQTYVY EGVEAKRIFK KD

## General References

Baier LJ., et al. (1995). *J Clin Invest.* 95(3):1281-7.  
Helwig u., et al. (2007) *Metabolism.* 56(6):723-31.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)