

Recombinant human FABP2/I-FABP protein

Catalog Number: ATGP0300

PRODUCT INFORMATION

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

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

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

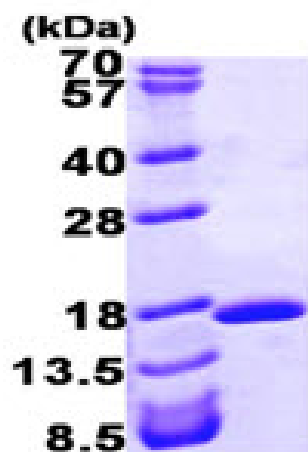
MGSSHHHHHH SSGLVPRGSH MAFDSTWKVD RSENYDKFME KMGVNIVKRK LAAHDNLKLT ITQEGNKFTV KESSAFRNIE VVFELGVTFN YNLADGTEL R GTWSLEG NKL IGKFKRTDNG NELNTVREII GDELVQTYVY EGVEAKRIFK KD

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)