Recombinant Human FABP2, His-tagged

Cat. No. FABP2-511H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FABP2, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 17.3 kDa (152 aa).
Species	Human
Source	E.coli
Description	FABP2, also known as intestinal fatty acid binding protein 2 (I-FABP), is expressed in the epithelium of the small 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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAFDSTWKVD RSENYDKFME KMGVNIVKRK LAAHDNLKLT ITQEGNKFTV KESSAFRNIE VVFELGVTFN YNLADGTELR GTWSLEGNKL IGKFKRTDNG NELNTVREII GDELVQTYVY EGVEAKRIFK KD.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Purity	> 95% by SDS – PAGE.

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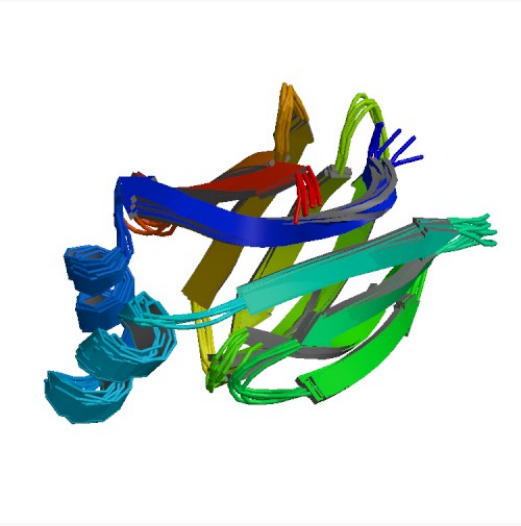
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 μg of protein (determined by LAL method).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	BP2 fatty acid binding protein 2, intestinal [Homo sapiens]
Synonyms	Fatty Acid Binding Protein, Intestinal; FABP-2; FABP2; FABPI; I-FABP; MGC133132; fatty acid binding protein 2, intestinal; intestinal fatty acid binding protein 2; Fatty acid-binding protein, intestinal
Gene ID	2169
mRNA Refseq	NM_000134
Protein Refseq	NP_000125
MIM	134640
UniProt ID	P12104
Chromosome Location	4q28-q31
Function	fatty acid binding; transporter activity

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