

## Recombinant Human FABP2, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human FABP2, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 17.3 kDa (152 aa).
<b>Species</b>	Human
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	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.
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MAFDSTWKVD RSENYDKFME KMGVNIVKRK LAAHDNLKLT ITQEGNKFTV KESSAFRNIE VVFELGVTFN YNLADGTELR GTWSLEGNKL IGKFKRTDNG NELNTVREII GDELVQTYVY EGVEAKRIFK KD.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
<b>Purity</b>	> 95% by SDS – PAGE.

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<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Endotoxin Level</b>	< 1.0 EU per 1 µg of protein (determined by LAL method).
<b>Storage</b>	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

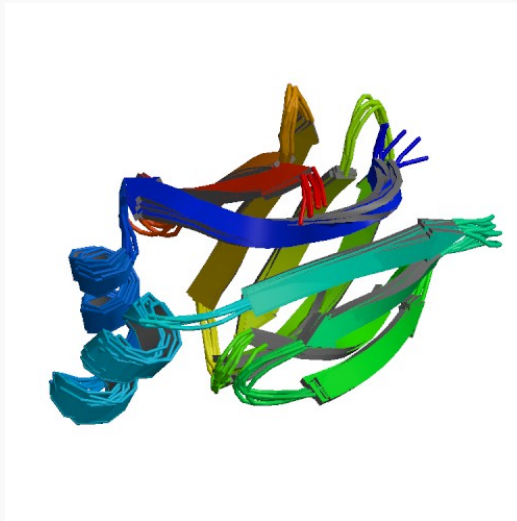
<b>Gene Name</b>	BP2 fatty acid binding protein 2, intestinal [ Homo sapiens ]
<b>Synonyms</b>	Fatty Acid Binding Protein, Intestinal; FABP-2; FABP2; FABPI; I-FABP; MGC133132; fatty acid binding protein 2, intestinal; intestinal fatty acid binding protein 2; Fatty acid-binding protein, intestinal
<b>Gene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

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