

## FABP2/I-FABP Protein, Human (His)

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| <b>Cat. No.:</b>         | HY-P70284   |
| <b>Synonyms:</b>         | rHuFatty acid-binding protein/FABP2, His; Fatty Acid-Binding Protein Intestinal; Fatty Acid-Binding Protein 2; Intestinal-Type Fatty Acid-Binding Protein; I-FABP; FABP2; FABPI |
| <b>Species:</b>          | Human   |
| <b>Source:</b>           | E. coli   |
| <b>Accession:</b>        | P12104 (M1-D132)  |
| <b>Gene ID:</b>          | 2169  |
| <b>Molecular Weight:</b> | Approximately 18 kDa  |

### PROPERTIES

|                                |   |
|--------------------------------|---|
| <b>AA Sequence</b>             | <p>           M A F D S T W K V D    R S E N Y D K F M E    K M G V N I V K R K    L A A H D N L K L T<br/>           I T Q E G N K F T V    K E S S A F R N I E    V V F E L G V T F N    Y N L A D G T E L R<br/>           G T W S L E G N K L    I G K F K R T D N G    N E L N T V R E I I    G D E L V Q T Y V Y<br/>           E G V E A K R I F K    K D         </p> |
| <b>Appearance</b>              | Lyophilized powder.   |
| <b>Formulation</b>             | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.   |
| <b>Endotoxin Level</b>         | <1 EU/µg, determined by LAL method.   |
| <b>Reconstitution</b>          | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).   |
| <b>Storage &amp; Stability</b> | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.  |
| <b>Shipping</b>                | Room temperature in continental US; may vary elsewhere.   |

### DESCRIPTION

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| <b>Background</b> | <p>The FABP2, also known as I-FABP (intestinal fatty acid-binding protein), is a member of the fatty acid-binding protein (FABP) family and is implicated in the intracellular transport of long-chain fatty acids and their acyl-CoA esters. FABP2 likely plays a role in triglyceride-rich lipoprotein synthesis. Notably, FABP2 exhibits a high affinity for saturated long-chain fatty acids, but its binding affinity is lower for unsaturated long-chain fatty acids. Additionally, FABP2 may contribute to the maintenance of energy homeostasis by functioning as a lipid sensor. These characteristics highlight the multifaceted role of FABP2 in cellular lipid metabolism, where it participates in fatty acid transport, influences lipoprotein synthesis, and potentially acts as a sensor to help regulate energy balance within cells.</p> |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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