

## FABP1 Protein, Human (His)

<b>Cat. No.:</b>	HY-P70264
<b>Synonyms:</b>	rHuFatty acid-binding protein/FABP1, His; Fatty Acid-Binding Protein Liver; Fatty Acid-Binding Protein 1; Liver-Type Fatty Acid-Binding Protein; L-FABP; FABP1; FABPL
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P07148 (M1-I127)
<b>Gene ID:</b>	2168
<b>Molecular Weight:</b>	Approximately 15.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           M S F S G K Y Q L Q    S Q E N F E A F M K    A I G L P E E L I Q    K G K D I K G V S E            I V Q N G K H F K F    T I T A G S K V I Q    N E F T V G E E C E    L E T M T G E K V K            T V V Q L E G D N K    L V T T F K N I K S    V T E L N G D I I T    N T M T L G D I V F            K R I S K R I         </p>
<b>Biological Activity</b>	Data is not available.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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.
<b>Storage &amp; Stability</b>	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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

<b>Background</b>	<p>FABP1 Protein is a cytoplasm protein and belongs to the calycin superfamily and FABP family. FABP1 is a liver-specific FABP that plays important roles in intracellular lipid metabolism in the liver<sup>[1]</sup>.</p> <p>FABP1 is expressed in renal proximal tubule cells and released into urine in response to hypoxia caused by decreased peritubular capillary blood flow<sup>[2]</sup>.</p>
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### REFERENCES

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[1]. S H Chen, et al. Human liver fatty acid binding protein gene is located on chromosome 2. *Somat Cell Mol Genet.* 1986 May;12(3):303-6

[2]. I-Ting Tsai, et al. FABP1 and FABP2 as markers of diabetic nephropathy. *Int J Med Sci.* 2020 Aug 27;17(15):2338-2345.

[3]. Huifeng Pi, et al. Long-term exercise prevents hepatic steatosis: a novel role of FABP1 in regulation of autophagy-lysosomal machinery. *FASEB J.* 2019 Nov;33(11):11870-11883.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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