

# Recombinant Mouse Fatty Acid Binding Protein 4, Adipocyte, His-tagged

**Cat. No.** Fabp4-1004M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Fabp4 was produced in <i>E.Coli</i> fused with a his tag.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	<p>Fatty-acid binding protein 4 (FABP4), also termed adipocyte fatty-acid binding protein (A-FABP), or aP2, is a novel adipocyte-expressed factor which accounted for ~6% of total cellular proteins. Several animal experiments suggested that FABP-4 plays a key role in the link between obesity and various features of metabolic syndrome. Mice with targeted disruption of FABP-4 accompany FABP-5 almost completely protect against diet-induced obesity, insulin resistance, dyslipidemia, type 2 diabetes, and fatty liver disease. Studies in human found FABP-4 serum levels were significantly increased in overweight and obese subjects, which predicted the risk to develop metabolic syndrome and type 2 diabetes. Additionally, serum FABP-4 levels were associated with carotid atherosclerosis and coronary artery disease.</p>
<b>Amino Acid Sequence</b>	<p>MCDAFVGTWK LVSSNFDDY MKEVGVGFAT RKVAGMAKPN MIISVNGDLV  TIRSESTFKN TEISFKLGVE FDEITADDRK VKSIITLDGG ALVQVQKWDG  KSTTIKRKRD GDKLVVECVM KGVSTSTRVYE RA</p>
<b>Form</b>	Filtered (0.22 μm) and lyophilized in 1 mg/mL in PBS.
<b>Purity</b>	>95%.

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<b>Applications</b>	ELISA, Western blotting, Immunoprecipitation
<b>Reconstitution</b>	Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
<b>Storage</b>	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing /thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

## GENE INFORMATION

<b>Gene Name</b>	Fabp4 fatty acid binding protein 4, adipocyte [ <i>Mus musculus</i> ]
<b>Synonyms</b>	Fabp4; fatty acid binding protein 4, adipocyte; Ap2; Lbpl; 422/aP2; ALBP/Ap2; adipocyte protein aP2; lipid binding protein-like
<b>Gene ID</b>	11770
<b>mRNA Refseq</b>	NM_024406
<b>Protein Refseq</b>	NP_077717
<b>UniProt ID</b>	P04117
<b>Chromosome Location</b>	313.9 cM
<b>Pathway</b>	PPAR signaling pathway

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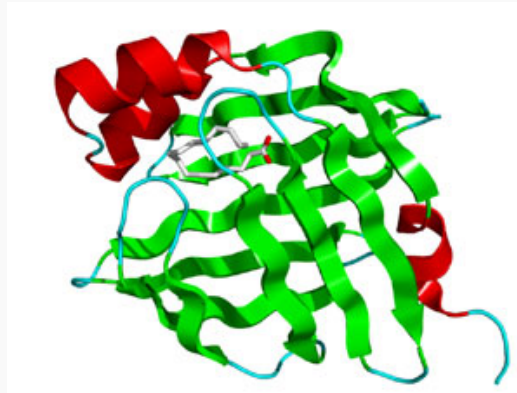
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**Function**

Binding; lipid binding; transcription repressor activity; transporter activity

**Crystallographic structure (PDB 2HNX) of palmitic acid (white sticks) complexed with aP2 (beta sheets = green, alpha helices = red, loops = cyan)**



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