

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

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

SPECIFICATION

Product Overview	Recombinant Mouse Fabp4 was produced in <i>E. Coli</i> fused with a his tag.
Species	Mouse
Source	E.coli
Description	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.
Amino Acid Sequence	MCDAFVGTSWK LVSSNFDDY MKEVGVGFAT RKVAGMAKPN MIISVNGDLV TIRSESTFKN TEISFKLGVE FDEITADDRK VKSIITLDGG ALVQVQKWDG KSTTIKRKRD GDKLVVECVK KGVTSSTRVYE RA
Form	Filtered (0.22 µm) and lyophilized in 1 mg/mL in PBS.
Purity	>95%.

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Applications	ELISA, Western blotting, Immunoprecipitation
Reconstitution	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.
Storage	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

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

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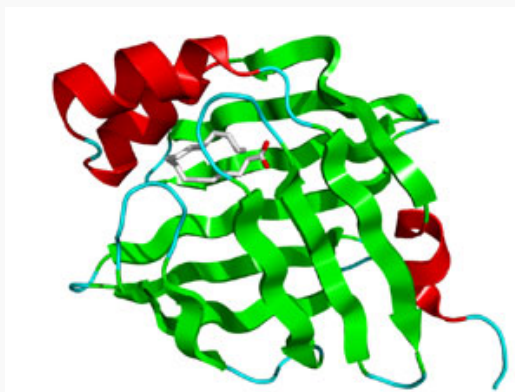
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Function

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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