Recombinant Mouse FABP4 Protein (Cys2-Ala132), His-MYC-tagged

Cat. No. FABP4-831M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse FABP4 Protein (NP_077717.1) (Cys2-Ala132) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the N-terminus and a myc tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Cys2-Ala132
Description	Fatty acid-binding protein, adipocyte, also known as Adipocyte-type fatty acid-binding protein, Fatty acid-binding protein 4, Adipocyte lipid-binding protein, and FABP4, is a cytoplasm protein which belongs to thecalycin superfamily and Fatty-acid binding protein (FABP) family. In familial combined hyperlipidemia (FCHL), FABP4 correlated to body mass index (BMI), waist circumference and homeostasis model assessment (HOMA) index.FABP4 levels were associated with triglyceride-rich lipoproteins. In humans serum FABP4 levels correlate significantly with features of PCOS. It appears to be a determinant of atherogenic dyslipidemia. FABP4 pathway mediates the sebaceous gland hyperplasia in keratinocyte-specific Pten-null mice. FABP4 concentration significantly increased with an increasing of MS features and was strongly correlated with body-mass index, triglycerides, HDL-cholesterol concentrations and blood pressure. Patients in the highest quartile of FABP4 presented a six-fold increased odds ratio for MS and a three-fold increased odds for

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	LD, adjusted by age, sex, body-mass index and the antiretroviral therapy. FABP4 is a strong plasma marker of metabolic disturbances in HIV-infected patients, and therefore, could serve to guide therapeutic intervention in this group of patients.
Predicted N Terminal	His
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 20 % glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant mouse Fabp4 consists of 147 amino acids and predicts a molecular mass of 16.5 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

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GENE INFORMATION

Gene Name	Fabp4 fatty acid binding protein 4, adipocyte [Mus musculus]
Official Symbol	FABP4
Synonyms	FABP4; P15; ALBP; AFABP; A-FABP; protein 422; Ap2; Lbpl; 422/aP2; ALBP/Ap2;
Gene ID	11770
mRNA Refseq	NM_024406
Protein Refseq	NP_077717
UniProt ID	P04117

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