

Recombinant Full Length Human FABP4 Protein, His tagged

Cat. No. FABP4-26819TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FABP4 (aa 1-132) fused at the C-terminus to a His-tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-132 aa
Description	FABP4 is a fatty acid binding protein in adipocytes. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. FABPs regulate the fatty acid uptake, transport, and metabolism. aP2, the mouse form of FABP4, seems to be central to the pathway that links obesity to insulin resistance. aP2 was shown to be an adipokine linking adipocytes to hepatic glucose production and that neutralizing secreted aP2 may represent an effective therapeutic strategy against diabetes.
Molecular Mass	~16 kDa (SDS-PAGE)
Endotoxin	< 1 EU/μg purified protein (LAL test; Lonza).
Purity	≥ 90% estimated by SDS-PAGE
Stability	Stable for at least 6 months after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.

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Storage	Short Term Storage: +4 centigrade Long Term Storage: -20 centigrade
Storage Buffer	Liquid. 0.2µm-filtered solution in 55mM TRIS-Cl, pH 8.2, containing 200mM NaCl.
Concentration	1 mg/mL
Shipping	BLUE ICE
Handling	After opening, prepare aliquots and store at -20 centigrade. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap.
Reference	1. Circulating Adipocyte Fatty Acid-Binding Protein Induces Insulin Resistance in Mice In Vivo: S. Kralisch, et al.; Obesity 23, 1007 (2015) 2. The adipokine FABP4 is a key regulator of neonatal glucose homeostasis: I. Ron, et al.; JCI Insight 6, e138288 (2021)

GENE INFORMATION

Gene Name	FABP4 fatty acid binding protein 4, adipocyte [Homo sapiens (human)]
Official Symbol	FABP4
Synonyms	FABP4; fatty acid binding protein 4, adipocyte; fatty acid-binding protein, adipocyte; A FABP; aP2; fatty acid-binding protein 4; adipocyte lipid-binding protein; adipocyte-type fatty acid-binding protein; ALBP; AFABP; A-FABP
Gene ID	2167
mRNA Refseq	NM_001442

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Protein Refseq	NP_001433
MIM	600434
UniProt ID	P15090

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