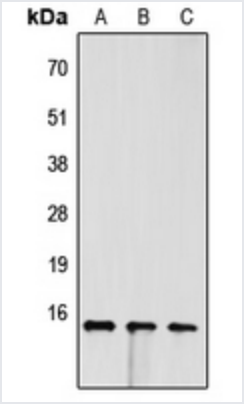
FABP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FABP4, Polyclonal Antibody
Full Product Name	Rabbit anti-FABP4 Antibody
Product Gene Name	anti-FABP4 antibody
Product Synonym Names	Fatty acid-binding protein, adipocyte; Adipocyte lipid-binding protein; ALBP; Adipocyte-type fatty acid-binding protein; A-FABP; AFABP; Fatty acid-binding protein 4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	132
OMIM	600434
3D Structure	ModBase 3D Structure for P15090
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human FABP4. The exact sequence is proprietary.
Product Categories/Family for anti-FABP4 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-FABP4 antibody	Western Blot (WB)
Application Notes for anti-FABP4 antibody	WB: 1:500-1:1000
Related Product Information for anti-FABP4 antibody	MBS4505685 is an antibody targeting FABP4. Also known as Rabbit anti-FABP4 Antibody. Reactive in Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-FABP4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-FABP4 antibody
Western blot analysis of FABP4 expression in Jurkat (A), H9C2 (B), PC12 (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FABP4. It may not necessarily be applicable to this product.

NCBI GI #	119781
NCBI GeneID	2167
NCBI Accession #	P15090.3
UniProt Primary Accession #	P15090
UniProt Secondary Accession #	P04117; P70623
UniProt Related Accession #	P15090
NCBI Official Full Name	Fatty acid-binding protein, adipocyte
NCBI Official Synonym Full Names	fatty acid binding protein 4, adipocyte
NCBI Official Symbol	FABP4
NCBI Official Synonym Symbols	aP2; ALBP; AFABP; A-FABP; HEL-S-104
UniProt Protein Name	Fatty acid-binding protein, adipocyte
UniProt Synonym Protein Names	Adipocyte lipid-binding protein; ALBP; Adipocyte-type fatty acid-binding protein; A-FABP; AFABP; Fatty acid-binding protein 4
Protein Family	Fatty acid-binding protein
UniProt Gene Name	FABP4
UniProt Synonym Gene Names	ALBP; A-FABP; AFABP
UniProt Entry Name	FABP4_HUMAN
NCBI Protein Information	fatty acid-binding protein, adipocyte; fatty acid-binding protein 4; adipocyte lipid-binding protein; epididymis secretory protein Li 104; adipocyte-type fatty acid-binding protein
NCBI Summary for FABP4	FABP4 encodes the fatty acid binding protein found 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. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. [provided by RefSeq, Jul 2008]

UniProt Comments for FABP4	FABP4: a lipid transport protein that is the predominant fatty acid binding protein found in adipocytes. Also expressed in macrophages. Binds both long chain fatty acids and retinoic acid. Delivers long-chain fatty acids and retinoic acid to their cognate receptors in the nucleus. Homodimer. Forms a beta-barrel structure that accommodates hydrophobic ligands in its interior. Interacts with PPARG. Monomer. FABP4 knockout mice fed a high-fat and high-calorie diet become obese but develop neither insulin resistance nor diabetes, suggesting that this protein might be a link between obesity and insulin resistance and diabetes. Mice deficient in both FABP4 and ApoE show protection against atherosclerosis when compared with mice deficient only in ApoE. Mice carrying a FABP4 genetic variant exhibit both reduced FABP4 expression and a reduced potential for developing type 2 diabetes and coronary heart disease. A related study in humans indicated a similar pattern, suggesting that FABP4 may be a potential therapeutic target in the treatment of these disorders. Belongs to the calycin superfamily,fatty-acid binding protein (FABP) family. Protein type: Lipid-binding Chromosomal Location of Human Ortholog: 8q21 Cellular Component: cytoplasm; lipid particle; nucleus Molecular Function: transporter activity; fatty acid binding Biological Process: cholesterol homeostasis; transport; white fat cell differentiation; triacylglycerol catabolic process; brown fat cell differentiation; negative regulation of protein kinase activity; cytokine production; negative regulation of transcription, DNA-dependent; positive regulation of inflammatory response
Research Articles on FABP4	**1.** Serum A-FABP concentrations correlate significantly with visceral fat area, metabolic syndrome, and predicted significant myocardial ischemia on single-photon emission computed tomography .
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