FABP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FABP4, Polyclonal Antibody
Full Product Name	FABP4
Product Gene Name	anti-FABP4 antibody
Product Synonym Gene Name	A-FABP; AFABP; ALBP; HEL-S-104; aP2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
Molecular Weight	15KD
OMIM	600434
3D Structure	ModBase 3D Structure for P15090
Immunogen	A peptide corresponding to C region of human FABP4 protein.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FABP4 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-FABP4 antibody	ELISA: 1:20,000-80,000 WB: 1:200-1,000
Related Product Information for anti-FABP4 antibody	MBS8560327 is an antibody targeting FABP4. Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FABP4 antibody	Garin-Shkolnik T, Rudich A, Hotamisligil. et al. FABP4 attenuates PPARgamma and adipogenesis and is inversely correlated with PPARgamma in adipose tissues. Diabetes. 63(3):900-11 (2014)
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.

ADDITIONAL DETAILS

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

NCBI GI #	4557579
NCBI GeneID	2167
NCBI Accession #	NP_001433
UniProt Primary Accession #	P15090

UniProt Related Accession #	P15090
GenBank Nucleotide #	NP_001433.1
NCBI Official Full Name	fatty acid-binding protein, adipocyte
NCBI Official Synonym Full Names	fatty acid binding protein 4
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
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.** FABP4 concentration is an independent predictor of the progression of carotid atherosclerosis.
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