FABP4 Antibody (Y20) Blocking Peptide

PRODUCT OVERVIEW

Product Name	FABP4 (Y20), Blocking Peptide
Full Product Name	FABP4 Antibody (Y20) Blocking Peptide
Product Gene Name	FABP4 blocking peptide
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; FABP4
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Y20 region of human FABP4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	FABP4 (Y20) peptide (MBS9224807) is used for blocking the activity of FABP4 antibody (MBS9210294)
Molecular Weight	14,719 Da
OMIM	600434
Cellular Location	Cytoplasm. Nucleus. Note: Depending on the nature of the ligand, a conformation change exposes a nuclear localization motif and the protein is transported into the nucleus. Subject to constitutive nuclear export (By similarity)
Related Product Information for FABP4 blocking peptide	Lipid transport protein in adipocytes. Binds both long chain fatty acids and retinoic acid. Delivers long-chain fatty acids and retinoic acid to their cognate receptors in the nucleus (By similarity).
Other Notes	Small volumes of FABP4 blocking peptide 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.
Searchable Terms for FABP4 purchase	MBS9224807 is a blocking peptide targeting FABP4. Also known as FABP4 Antibody (Y20) Blocking Peptide.

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 #	Q6IBA1
UniProt Related Accession #	P15090
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; cytosol; lipid particle Biological Process: triacylglycerol catabolic process
Research Articles on FABP4	**1.** Serum irisin might exert antagonistic effects on FABP4 in the middle-aged Chinese population.
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