FABP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FABP4, Polyclonal Antibody
Full Product Name	FABP4, Phosphorylated (Tyr20) (Fatty Acid-binding Protein, Adipocyte, Adipocyte-type Fatty Acid-binding Protein, A-FABP, AFABP, Fatty Acid-binding Protein 4, Adipocyte Lipid-binding Protein, ALBP) (MaxLight 550)
Product Gene Name	anti-FABP4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human FABP4 when phosphorylated at Tyr20.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	600434
3D Structure	ModBase 3D Structure for P15090
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Tyr20 of human FABP4 (KLH).
Conjugate	MaxLight550
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-FABP4 antibody	Antibodies; Fatty Acid Binding Protein
Applications Tested/Suitable for anti-FABP4 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-FABP4 antibody	FLISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-FABP4 antibody	MBS6475649 is an antibody targeting FABP4. Also known as FABP4, Phosphorylated (Tyr20) (Fatty Acid-binding Protein, Adipocyte, Adipocyte-type Fatty Acid-binding Protein, A-FABP, AFABP, Fatty Acid-binding Protein 4, Adipocyte Lipid-binding Protein, ALBP) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FABP4 antibody	1. Cabre, A., J. Lipid Res. 49(8), 1746-1751 (2008). 2. Fasshauer, M., Am. J. Hypertens. 21(5), 582-586 (2008). 3. Cabre, A., Clin. Chem. 54(1), 181-187 (2008).
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 Secondary Accession #	Q6IBA1
UniProt Related Accession #	P15090
GenBank Nucleotide #	NM_001442.2
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.** our research demonstrated that high FABP3 or FABP4 expression had strong prognostic value for overall survival in non-small cell lung cancer
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