# FABP4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | FABP4, Polyclonal Antibody |
| **Full Product Name** | FABP4 (Y20) (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 650) |
| **Product Gene Name** | anti-FABP4 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human FABP4. Species Crossreactivity: mouse. |
| **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: MaxLight650 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** | KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids aa1-30 of human FABP4, UniProt Accession #NP_001433; P15090. Species sequence homology: mouse, rat, bovine, porcine |
| **Conjugate** | MaxLight650 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-FABP4 antibody** | Antibodies; Fatty Acid Binding Protein |
| **Applications Tested/Suitable for anti-FABP4 antibody** | Western Blot (WB) |
| **Application Notes for anti-FABP4 antibody** | WB: 1:1000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-FABP4 antibody** | MBS6475639 is an antibody targeting FABP4. Also known as FABP4 (Y20) (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 650). Reactive in Human, Mouse. 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.

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| **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.<br><br>Protein type: Lipid-binding<br><br>Chromosomal Location of Human Ortholog: 8q21<br><br>Cellular Component: cytoplasm; lipid particle; nucleus<br><br>Molecular Function: transporter activity; fatty acid binding<br><br>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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