

Anti-FABP4 Antibody

Catalog # ABO12762

Product Information

Application	WB, IHC-P
Primary Accession	P15090
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Fatty acid-binding protein, adipocyte(FABP4) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2167
Other 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
Calculated MW	14719
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human
Subcellular Localization	Cytoplasm. Nucleus. 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). .
Source	Eukaryota
Protein Name	Fatty acid-binding protein, adipocyte
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human FABP4 (10-40aa KLVSSNFDDYMKEVGVGFATRKVAGMAKPN), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
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Protein Information

Name	FABP4
Function	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.
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:P04117}. Nucleus {ECO:0000250 UniProtKB:P04117}. 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. {ECO:0000250 UniProtKB:P04117}

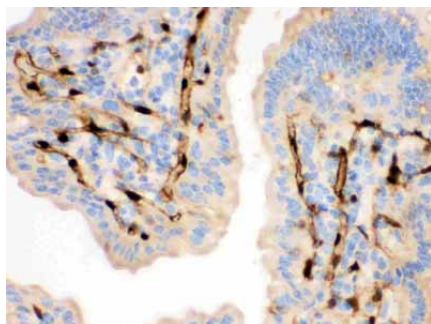
Background

Fatty acid binding proteins (FABPs) are small cytoplasmic proteins that are expressed in a highly tissue-specific manner and bind to fatty acids such as oleic and retinoic acid. Adipocyte fatty-acid-binding protein, aP2 (FABP4) is expressed in adipocytes and macrophages, and integrates inflammatory and metabolic responses. Studies in aP2-deficient mice have shown that this lipid chaperone has a significant role in several aspects of metabolic syndrome, including type 2 diabetes and atherosclerosis. It regulates allergic airway inflammation and may provide a link between fatty acid metabolism and asthma.

Images

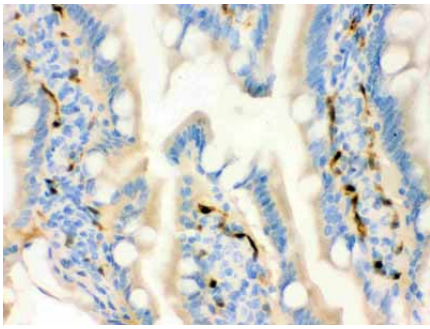


Anti- FABP4 antibody, ABO12762, Western blottingAll lanes: Anti FABP4 (ABO12762) at 0.5ug/mlLane 1: Rat Thymus Tissue Lysate at 50ugLane 2: Rat Cardiac Muscle Tissue Lysate at 50ugLane 3: Mouse Thymus Tissue Lysate at 50ugLane 4: Mouse Cardiac Muscle Tissue Lysate at 50ugPredicted bind size: 15KDObserved bind size: 15KD



Anti- FABP4 antibody, ABO12762, IHC(P)IHC(P): Mouse Intestine Tissue

Anti- FABP4 antibody, ABO12762, IHC(P)IHC(P): Rat Intestine Tissue



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