

Anti-FABP4 Antibody
Catalog # ABO12762

Specification

Anti-FABP4 Antibody - Product Information

Application	WB, IHC
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.

Anti-FABP4 Antibody - 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 MW KDa

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). .

Protein Name

Fatty acid-binding protein, adipocyte

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human FABP4 (10-40aa KLVSSSENFDDYMKVEVGVGFATRQVAGMAKPN), 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 reconstitution, 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.

Anti-FABP4 Antibody - 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.

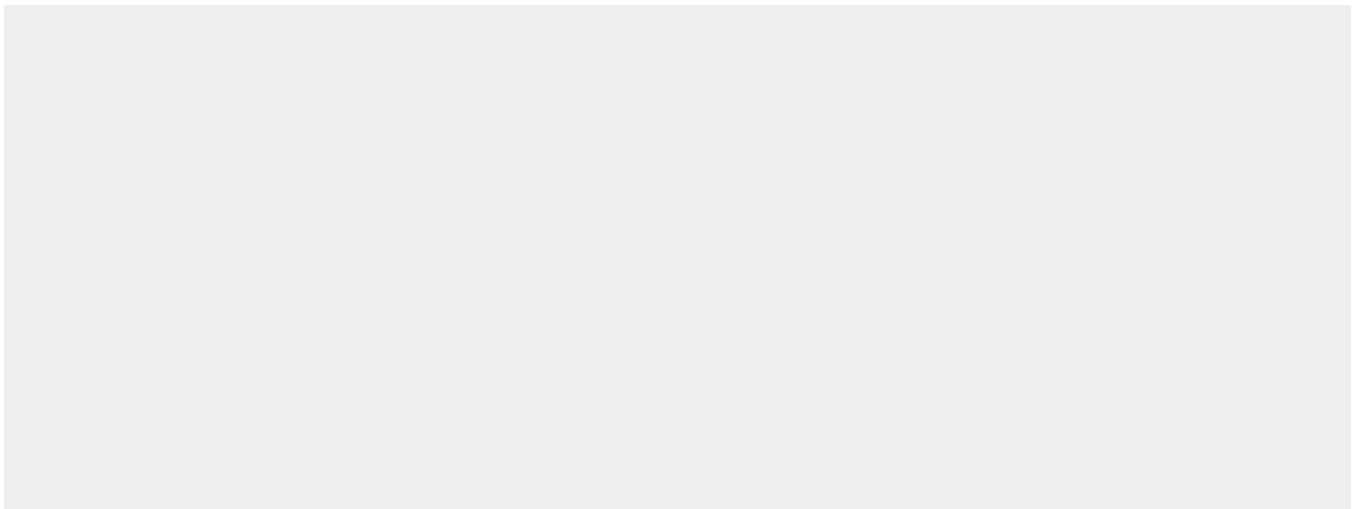
Cellular Location

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}

Anti-FABP4 Antibody - Protocols

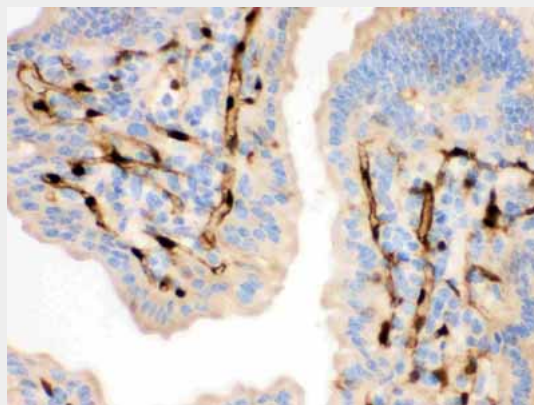
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

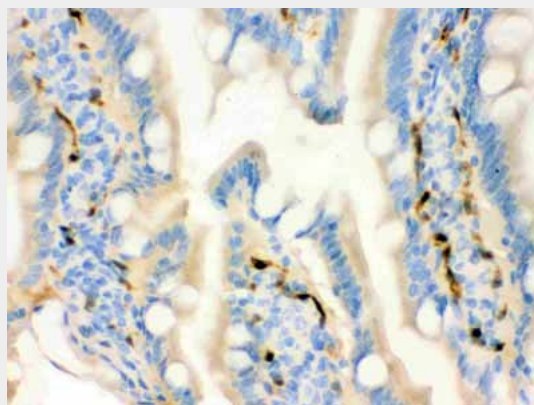
Anti-FABP4 Antibody - Images



Anti- FABP4 antibody, ABO12762, Western blotting All lanes: Anti FABP4 (ABO12762) at 0.5ug/ml
 Lane 1: Rat Thymus Tissue Lysate at 50ug
 Lane 2: Rat Cardiac Muscle Tissue Lysate at 50ug
 Lane 3: Mouse Thymus Tissue Lysate at 50ug
 Lane 4: Mouse Cardiac Muscle Tissue Lysate at 50ug
 Predicted bind size: 15KD
 Observed 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

Anti-FABP4 Antibody - 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.