

Anti-FABP4 Picoband Antibody

Catalog # ABO12952

Specification

Anti-FABP4 Picoband Antibody - Product Information

Application	WB
Primary Accession	P70623
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Fatty acid-binding protein, adipocyte(Fabp4) detection. Tested with WB, ELISA in Mouse;Rat.

Reconstitution

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

Anti-FABP4 Picoband Antibody - Additional Information

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

14708 MW KDa

Application Details

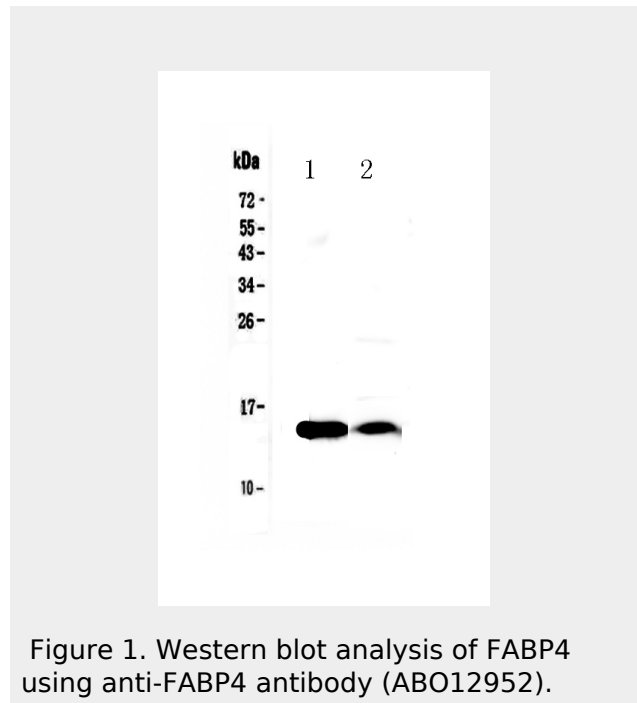
ELISA , 0.1-0.5 µg/ml, Rat,
 Western blot, 0.1-0.5 µg/ml, Mouse, Rat,

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). .

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.



Anti-FABP4 Picoband 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.

Immunogen

E. coli-derived rat FABP4 recombinant protein (Position: C2-A132). Rat FABP4 shares 88.5% and 93.9% amino acid (aa) sequence identity with human and mouse FABP4, respectively.

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 Picoband 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 Picoband 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](#)