

### **FABP4 Antibody**

Purified Mouse Monoclonal Antibody Catalog # AO1334a

# **Specification**

# **FABP4 Antibody - Product Information**

Application WB, E
Primary Accession P15090
Reactivity Human
Host Mouse
Clonality Monoclonal
Isotype IgG1
Calculated MW 14kDa KDa

**Description** 

Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long chain fatty acids, their coenzymes and other hydrophobic ligands and small molecules in the cytoplasm. It is thought that the role of these proteins includes fatty acid uptake, intracellular lipid transport and metabolism. FABP4 encodes the fatty acid binding protein found in adipocytes. 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 A related study in humans indicated a similar pattern, suggesting that FABP4 may be a potential therapeutic target in the treatment of these disorders.

## **Immunogen**

Purified recombinant fragment of FABP4 expressed in E. Coli.

### **Formulation**

Ascitic fluid containing 0.03% sodium azide.

# **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

## **Dilution**

WB~~1/500 - 1/2000 E~~N/A

# Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

FABP4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



# **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}

# **FABP4 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# FABP4 Antibody - Images

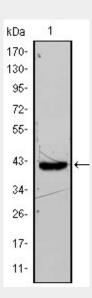


Figure 1: Western blot analysis using FABP4 mouse mAb against FABP4-hlgGFc transfected HEK293 cell lysate.

## **FABP4 Antibody - References**

1. Proc. Natl. Acad. Sci. 2006.103:6970-75. 2. Science. 1996. 274:1377-79. 3. Biochemistry. 1997.36(27):8311-7 4. Mol Cell Biochem. 2004.302(1-2):203-13