

FABP4 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1334a

Specification

FABP4 Antibody - Product Information

Application	WB
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

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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FABP4 Antibody - Images

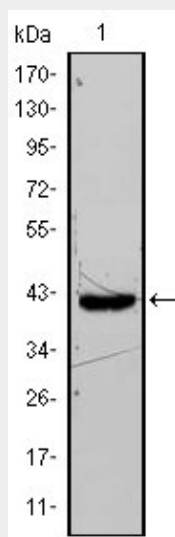


Figure 1: Western blot analysis using FABP4 mouse mAb against FABP4-hlgGfc transfected HEK293 cell lysate.

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