

FABP4

Reactivity: Human Mouse

Tested applications: WB IHC

Recommended Dilution: WB 1:200 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 15kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human FABP4

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

FABP4;A-FABP;aP2

Catalog #: A0120

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID: 2167

Isotype: IgG

Swiss Prot: P15090

Purity: Affinity purification

For research use only.

Background:

Fatty acid binding proteins (FABPs) bind to fatty acids and other lipids to function as cytoplasmic lipid chaperones (1). They participate in the transport of fatty acids and other lipids to various cellular pathways (2). The predominant fatty acid binding protein found in adipocytes is FABP4, also called adipocyte fatty acid binding protein or aP2. FABP4 is also expressed in macrophages (3). 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 (4). Mice deficient in both FABP4 and ApoE show protection against atherosclerosis when compared with mice deficient only in ApoE (3). Mice carrying a FABP4 genetic variant exhibit both reduced FABP4 expression and a reduced potential for developing type 2 diabetes and coronary heart disease. A related study in humans indicated a similar pattern, suggesting that FABP4 may be a potential therapeutic target in the treatment of these disorders (1).

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