

Rabbit FABP4 Polyclonal Antibody | anti-FABP4 antibody

FABP4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31121	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, ELISA

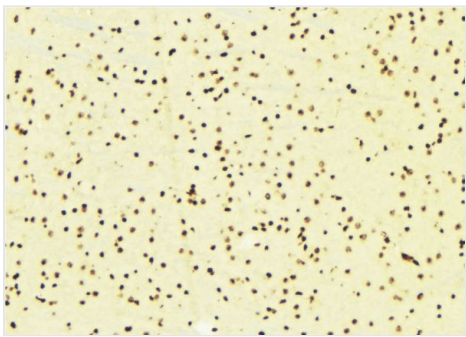
PRODUCT SYNONYMS

FABP4; Polyclonal Antibody; FABP4 Antibody; 3T3-L1 lipid-binding protein; 422/aP2; A-FABP; adipocyte; Adipocyte lipid binding protein; Adipocyte lipid-binding protein; Adipocyte protein AP2; Adipocyte-type fatty acid-binding protein; AFABP; ALBP; ALBP/AP2; aP2; Epididymis secretory protein Li 104; FABP; FABP4_HUMAN; Fatty acid binding protein 4 adipocyte; Fatty acid binding protein 4; Fatty acid binding protein adipocyte; Fatty acid-binding protein 4; Fatty acid-binding protein; HEL S 104; Lbpl; Myelin P2 protein homolog; P15; P2 adipocyte protein; Protein 422; anti-FABP4 antibody

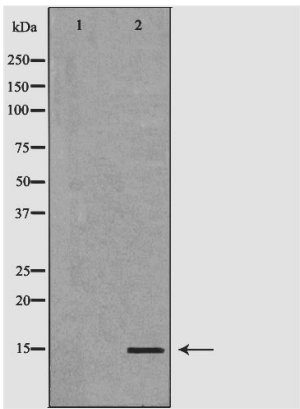
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FABP4 antibody detects endogenous levels of total FABP4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	~1mg/ml (varies by lot)
Sequence Length	132
Applicable Applications for anti-FABP4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA (peptide): 1:20000-1:40000 The optimal dilution should be determined by the end user. IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.
Immunogen	A synthesized peptide derived from human FABP4.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA31121 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using FABP4 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FABP4 antibody	Description: 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). 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 (By similarity). Subunit Structure: Homodimer. Interacts with PPARG (By similarity). Monomer. Similarity: Forms a beta-barrel structure that accommodates hydrophobic ligands in its interior. Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557579
NCBI GeneID	2167
NCBI Accession #	NP_001433.1
NCBI GenBank Nucleotide #	NM_001442.2
UniProt Accession #	P15090; Q6IBA1
Molecular Weight	Observed: 15 kDa Predicted: 15 kDa
NCBI Official Full Name	fatty acid-binding protein, adipocyte
NCBI Official Synonym Full Names	fatty acid binding protein 4
NCBI Official Symbol	FABP4
NCBI Official Synonym Symbols	aP2; ALBP; AFABP; A-FABP; HEL-S-104
NCBI Protein Information	fatty acid-binding protein, adipocyte
UniProt Protein Name	Fatty acid-binding protein, adipocyte

UniProt Gene Name	FABP4
UniProt Synonym Gene Names	ALBP; A-FABP; AFABP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/fabp4-antibody-western-blot-immunohistochemistry-elisa/31121>