Mouse anti-Human Fatty Acid Binding Protein/FABP1 Monoclonal Antibody | anti-FABP1 antibody

Fatty Acid Binding Protein (Liver)/FABP1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215449	**Mouse**	**Human**	**Western Blot, Immunohistochemistry**

PRODUCT SYNONYMS

Fatty Acid Binding Protein/FABP1; Monoclonal Antibody; Fatty Acid Binding Protein (Liver)/FABP1; FABP1; L-FABP; anti-FABP1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	FABP1/3487
Specificity	Fatty acid-binding proteins, designated FABPs, are a family of homologous cytoplasmic proteins that are expressed in a highly tissue-specific manner and play an integral role in the balance between lipid and carbohydrate metabolism. FABPs mediate fatty acid (FA) and/or hydrophobic ligand uptake, transport and targeting within their respective tissues. The mechanisms underlying these actions can give rise to both passive diffusional uptake and protein-mediated transmembrane transport of FAs. FABPs are expressed in adipocytes (A-FABP), brain (B-FABP), epithelium (E-FABP, psoriasis-associated FABP, PA-FABP), striated muscle and heart (H-FABP, mammary-derived growth inhibitor or MDGI), intestine (I-FABP), liver (L-FABP or FABP1), myelin (M-FABP) and testis (T-FABP). FABP1 (L-FABP) expression is modulated by developmental, hormonal, dietary and pharmacological factors, and is required for cholesterol synthesis and metabolism.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	127
Applicable Applications for anti-FABP1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	Human recombinant FABP1 protein fragment (around aa1-127) (exact sequence is proprietary)
Cellular Localization	Cytoplasmic and Nuclear
Hu-chromosome Location	2p11.2
Positive Control	Liver or Colon carcinoma tissues (IHC). Kidney tissue lysates (WB).
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using FABP1 Mouse Monoclonal Antibody (FABP1/3487). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE
SDS-PAGE Analysis Purified FABP1 Mouse Monoclonal Antibody (FABP1/3487). Confirmation of Purity and Integrity of Antibody.



WB (Western Blot)
Western Blot Analysis of HepG-2 cell lysate and human kidney tissue lysate using FABP1 Mouse Monoclonal Antibody (FABP1/3487).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human liver carcinoma stained with FABP1 Mouse Monoclonal Antibody (FABP1/3487).

ADDITIONAL INFORMATION

References	Kaikaus, R.M., et al. 1993. Mechanisms of regulation of liver fatty acidbinding protein. Mol. Cell. Biochem. 123: 93-100.

NCBI AND UNIPROT INFORMATION

NCBI GI #	182358
NCBI GeneID	2168
UniProt Accession #	P07148
Molecular Weight	14kDa
NCBI Official Full Name	L-FABP
NCBI Official Synonym Full Names	fatty acid binding protein 1
NCBI Official Symbol	FABP1
NCBI Official Synonym Symbols	FABPL; L-FABP
NCBI Protein Information	fatty acid-binding protein, liver
UniProt Protein Name	Fatty acid-binding protein, liver
UniProt Gene Name	**FABP1**
UniProt Synonym Gene Names	FABPL; L-FABP
UniProt Entry Name	FABPL_HUMAN

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.

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