

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

Fatty Acid Binding Protein (Liver)/FABP1

CATALOG # AAA215457	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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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	IgG2a, kappa
Clone Number	FABP1/3483
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	IHC (Immunohistochemistry)
Immunogen	Human recombinant FABP1 protein fragment (around aa1-127) (exact sequence is proprietary)
Cellular Localization	Cytoplasm 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 (FABP1/3483). 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 HuProt™ 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 HuProt™ 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 (FABP1/3483). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human liver carcinoma stained with FABP1 Mouse Monoclonal Antibody (FABP1/3483).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human kidney stained with FABP1 Mouse Monoclonal Antibody (FABP1/3483).

ADDITIONAL INFORMATION

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

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