abcam

Product datasheet

Anti-liver FABP antibody [L2B10] ab7366

10 Abreviews 15 References 4 Images

Overview

Product name	Anti-liver FABP antibody [L2B10]
Description	Mouse monoclonal [L2B10] to liver FABP
Host species	Mouse
Specificity	This monoclonal antibody binds to human liver FABP of both natural and recombinant origin. No reactivity to human intestinal or heart FABP.
Tested applications	**Suitable for:** WB, Functional Studies, Flow Cyt, IHC-P, IHC-Fr **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Cow, Human, African green monkey
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 0.2% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	L2B10
Isotype	IgG1

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab7366 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (6)	Use at an assay dependent concentration. Predicted molecular weight: 14 kDa. PubMed: 18779054
Functional Studies		Use at an assay dependent concentration. Liver FABP is a sensitive marker for cell damage of liver cells in vivo and useful for example for in vitro toxicology tests. Cytotoxicity protocol: * Culture 100 ml of 1.105 HUH-7 cells per ml in 96-wells plate. * T=0: Add 100 ml of 2x test chemicals to 96-wells plate. * Incubate 37 degree C, 5% CO2. * T=24: measure L-FABP in supernatant.
Flow Cyt		Use 1µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF.

Target

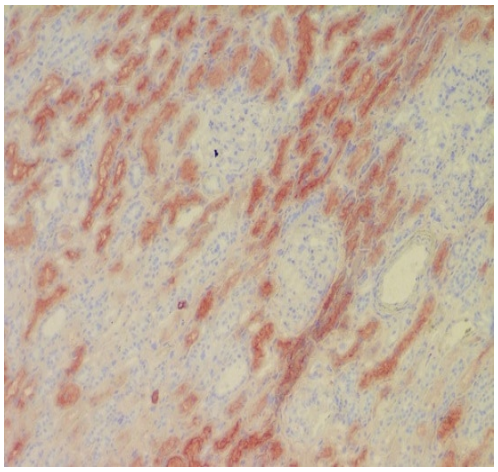
Function Binds free fatty acids and their coenzyme A derivatives, bilirubin, and some other small molecules in the cytoplasm. May be involved in intracellular lipid transport.

Sequence similarities Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.

Domain Forms a beta-barrel structure that accommodates hydrophobic ligands in its interior.

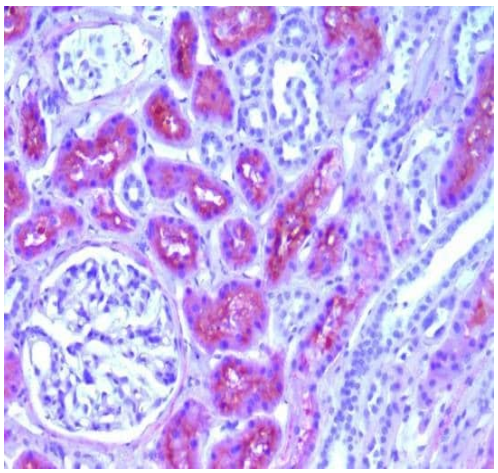
Cellular localization Cytoplasm.

Images



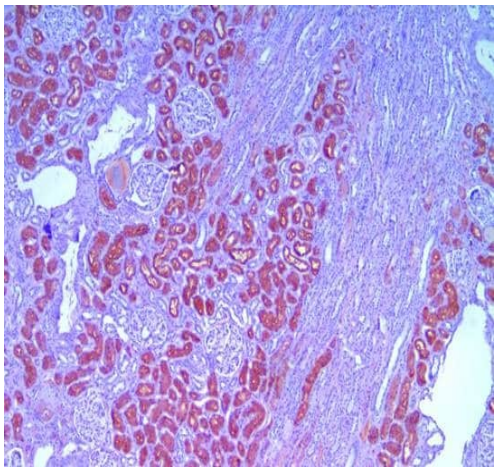
Immunohistochemistry (Frozen sections) - Anti-liver FABP antibody [L2B10] (ab7366)

Immunohistochemical analysis of human L-FABP in frozen human kidney tissue with ab7366 at 1.9 µg/ml.



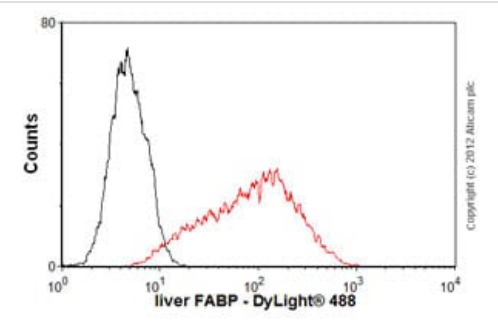
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [L2B10] (ab7366)

Immunohistochemistry (Paraffin-embedded sections) analysis of human kidney tissue labelling liver FABP with ab7366 at 1/1000. Antigen retrieval was performed using glycine buffer. Magnification: 200X.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [L2B10] (ab7366)

Immunohistochemistry (Paraffin-embedded sections) analysis of human kidney tissue labelling liver FABP with ab7366 at 1/1000. Antigen retrieval was performed using glycine buffer. Magnification: 50X.



Flow Cytometry - Anti-liver FABP antibody [L2B10] (ab7366)

Overlay histogram showing HepG2 cells stained with **ab110336** (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab110336**, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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