abcam

ab7366

Anti-liver FABP antibody [L2B10]

Anti-liver FABP antibody [L2B10] (ab7366) is a mouse monoclonal antibody detecting liver FABP in **Western Blot, Flow Cytometry, IHC-P, IHC-Fr, FuncS**. Suitable for **African green monkey, Cow, Human, Mouse, Rat**.

- Over 10 publications
- Trusted since 2002

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	L2B10
Purification technique	Affinity purification Protein G
Specificity	This monoclonal antibody binds to human liver FABP of both natural and recombinant origin.No reactivity to human intestinal or heart FABP.
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	1 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	African green monkey
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Cow, Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Vervet monkey
Dilution info	-
Notes	-

WB

Expected

Species	Mouse, Rat, African green monkey, Human, Cow
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Vervet monkey
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	African green monkey, Cow, Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Vervet monkey
Dilution info	-
Notes	-

FuncS

Expected

Species	Mouse
Dilution info	-
Notes	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.

Species	Rat
Dilution info	-
Notes	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.

Species	African green monkey
Dilution info	-
Notes	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.

Species	Human
Dilution info	-
Notes	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.

Species	Cow
Dilution info	-
Notes	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.

Not recommended

Species	Vervet monkey
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Rat, Vervet monkey, Human, Cow, African green monkey
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	African green monkey, Cow, Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Vervet monkey
Dilution info	-
Notes	-

Target data

See full target information FABP1

Function	Plays a role in lipoprotein-mediated cholesterol uptake in hepatocytes (PubMed:25732850). Binds cholesterol (PubMed:25732850). 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 (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-liver FABP antibody [L2B10] (ab7366) is a mouse monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Functional Studies in African green monkey, Cow, Human, Mouse, Rat samples.

What is the molecular weight of liver FABP?
Anti-liver FABP [L2B10] (ab7366) specifically detects a band for liver FABP (UniProt: P07148) at a molecular weight of 14kDa.

Trusted by the scientific community
Anti-liver FABP [L2B10] (ab7366) was first used in a scientific publication in 2002 and has been cited over 10 times in peer-reviewed journals.

Reviewed by scientists
Anti-liver FABP [L2B10] (ab7366) has over 5 independent reviews from customers.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Liver fatty acid binding protein (liver FABP) also known as L-FABP or FABP1 is a small protein with a mass of approximately 14 kilodaltons. It functions mainly in the liver where it binds free fatty acids and other lipophilic substances facilitating their transport within cells. This protein is highly expressed in hepatocytes and also found in the small intestine and kidneys. Its role in binding fatty acids positions it as an important mediator in lipid metabolism making it of interest in a variety of metabolic studies.
Biological function summary	Liver FABP is essential for maintaining lipid homeostasis within cells. It is not part of a larger complex but acts by itself to regulate the intracellular concentration of lipids and protect cells from lipotoxicity. By sequestering fatty acids it prevents these molecules from disrupting cellular membranes or signaling pathways. Liver FABP also participates in the uptake transport and metabolic conversion of fatty acids and their metabolites influencing energy homeostasis and other vital processes.
Pathways	Liver FABP plays a significant role in the fatty acid metabolism and peroxisome proliferator-activated receptor (PPAR) signaling pathways. It acts by modulating the availability of lipid ligands necessary for PPAR activation linking it functionally to these nuclear receptors that control gene expression involved in lipid and glucose metabolism. Liver FABP's association with proteins like FABP2 and FABP4 within these pathways provides insight into its broader metabolic network highlighting its interactions in fatty acid transport and metabolism.
Associated diseases and disorders	Liver FABP shows a strong connection to metabolic conditions particularly non-alcoholic fatty liver disease (NAFLD) and type 2 diabetes. Its dysregulation is often observed in these disorders which include altered lipid profiles and insulin

resistance. Liver FABP is also linked to certain forms of cancer with aberrant expression levels found in some tumor types. The interactions of liver FABP with proteins such as FABP5 in these diseases suggest a potential role in the pathogenesis of metabolic disorders and tumor development making it a candidate for further research and therapeutic targeting.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

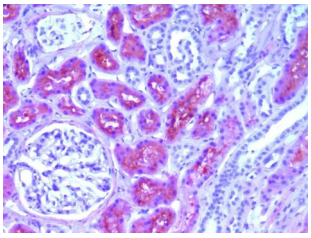
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

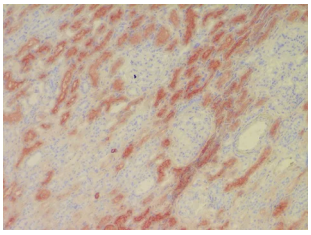
4 product images



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

Liver FABP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-liver FABP antibody

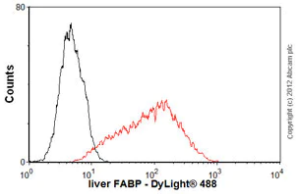
Immunohistochemistry (Paraffin-embedded sections) analysis of human kidney tissue labelling liver FABP with ab7366 at 1/1000. Antigen retrieval was performed using glycine buffer. Magnification: 200X.



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

Liver FABP Immunohistochemistry (Frozen sections) staining using mouse Anti-liver FABP antibody

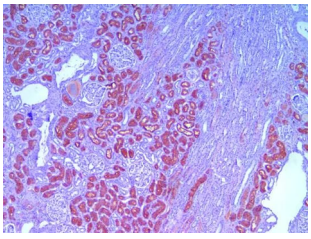
Immunohistochemical analysis of human L-FABP in frozen human kidney tissue with ab7366 at 1.9 µg/ml.



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

Liver FABP Flow Cytometry staining using mouse Anti-liver FABP antibody

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 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. 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.



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

Liver FABP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-liver FABP antibody

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.