abcam

Product datasheet

Anti-FABP-1 antibody [EPR12354(B)] ab171739

Recombinant RabMAb

10 References 11 Images

Overview

Product name	Anti-FABP-1 antibody [EPR12354(B)]
Description	Rabbit monoclonal [EPR12354(B)] to FABP-1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP **Unsuitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human FABP-1 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: **P00505**
Positive control	WB: HeLa, Human liver, HEPG2, HEK-293T, Mouse brain, Rat brain, Mouse liver, and Rat liver lysates; IHC-P: human liver and urinary bladder carcinoma, mouse kidney, and rat stomach tissues; IP: Human fetal liver lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR12354(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab171739 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		1/1000 - 1/10000. Predicted molecular weight: 48 kDa.
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/50 - 1/100.**
IP		1/10 - 1/100.

Application notes Is unsuitable for Flow Cyt.

Target

Function Plays a key role in amino acid metabolism. Important for metabolite exchange between mitochondria and cytosol. Facilitates cellular uptake of long-chain free fatty acids.

Sequence similarities Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family.

Cellular localization Mitochondrion matrix. Cell membrane. Exposure to alcohol promotes translocation to the cell membrane.

Images

Western blot - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

All lanes : Anti-FABP-1 antibody [EPR12354(B)] (ab171739) at 1/1000 dilution (Purified)

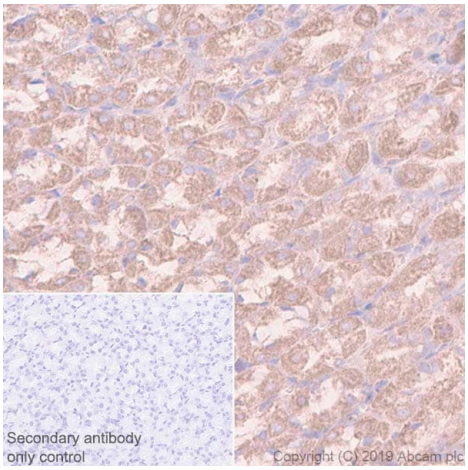
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : Mouse brain lysates
Lane 3 : Rat brain lysates
Lane 4 : Mouse liver lysates
Lane 5 : Rat liver lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity

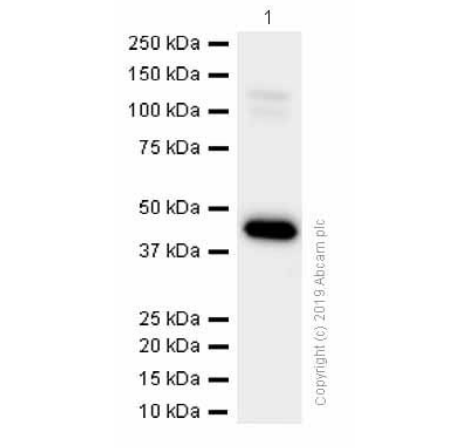
with human IgG at 1/2000 dilution

Predicted band size: 48 kDa
Observed band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomach tissue sections labeling FABP-1 with purified ab171739 at 1/4000 dilution (0.25 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

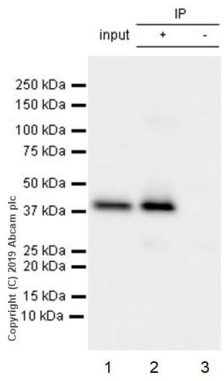
Anti-FABP-1 antibody [EPR12354(B)] (ab171739) at 1/1000 dilution + Recombinant human FABP-1 protein (**ab206788**) at 0.015 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 48 kDa
Observed band size: 47 kDa

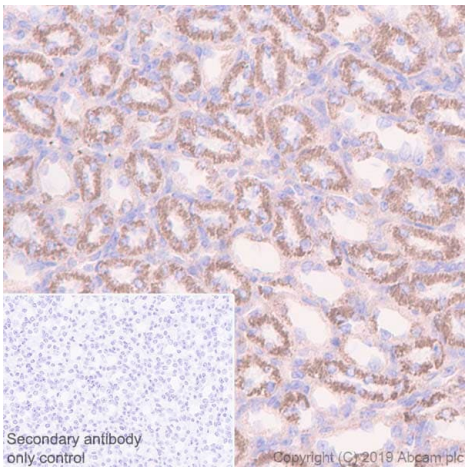
Exposure time: 10 seconds

Blocking and dilution buffer: 5% NFDM/TBST.



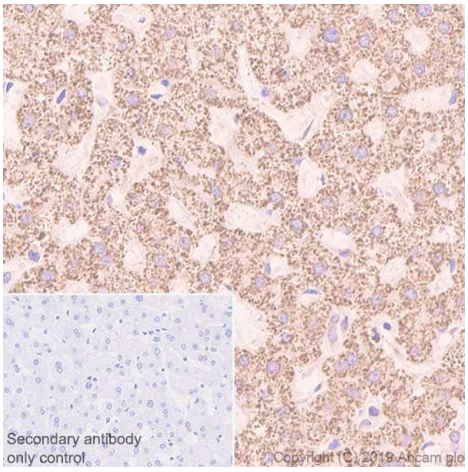
Immunoprecipitation - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

ab171739 (purified) at 1/50 dilution (2 µg) immunoprecipitating FABP-1 in Human fetal liver lysate.
Lane 1 (input): Human fetal liver lysate 10 µg
Lane 2 (+): ab171739 & Human fetal liver lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab171739 in Human fetal liver lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.



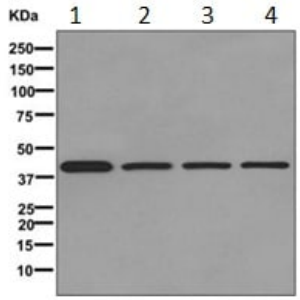
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue sections labeling FABP-1 with purified ab171739 at 1/4000 dilution (0.25 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling FABP-1 with purified ab171739 at 1/4000 dilution (0.25 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



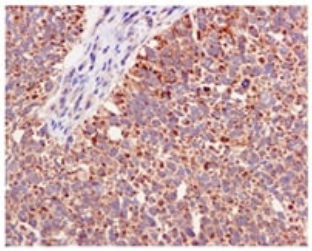
Western blot - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

All lanes : Anti-FABP-1 antibody [EPR12354(B)] (ab171739) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal liver lysate
Lane 2 : 293T cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : HeLa cell lysate

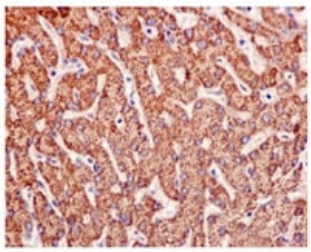
Lysates/proteins at 10 µg per lane.

Predicted band size: 48 kDa



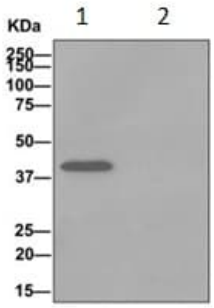
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

Immunohistochemistry of paraffin-embedded Human urinary bladder carcinoma tissue labeling FABP-1 using ab171739 (unpurified) at 1/50 dilution.



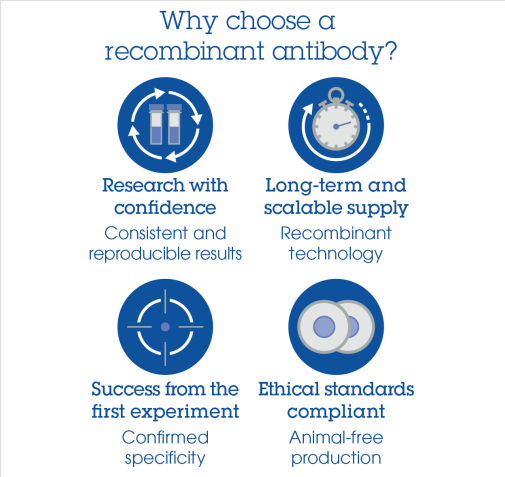
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

Immunohistochemistry of paraffin-embedded Human liver tissue labeling FABP-1 using ab171739 (unpurified) at 1/50 dilution.



Immunoprecipitation - Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

Western blot analysis on immunoprecipitation pellet from Human fetal liver lysate (lane 1) labeling FABP-1 using ab171739 (unpurified) at 1/10 dilution, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG. Lane 2: 1X PBS (negative control).



Anti-FABP-1 antibody [EPR12354(B)] (ab171739)

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