abcam

Product datasheet

Anti-liver FABP antibody [EPR20464] - BSA and Azide free ab240401

Recombinant RabMAb

12 Images

Overview

Product name	Anti-liver FABP antibody [EPR20464] - BSA and Azide free
Description	Rabbit monoclonal [EPR20464] to liver FABP - BSA and Azide free
Host species	Rabbit
Specificity	We don't recommend this antibody for mouse in IHC. In our hands mouse testis and heart tissue samples showed non-specific staining.
Tested applications	**Suitable for:** WB, mIHC, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal colon, HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate, human fetal liver, rat and mouse liver. IHC-P: Human liver and colon tissue. Human hepatocellular carcinoma tissue. Human colon cancer and gastric cancer tissue. Rat liver tissue. ICC/IF: HepG2 cells. mIHC: Human duodenum tissue, human colon tissue.
General notes	ab240401 is the carrier-free version of **ab222517**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20464
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240401 in the following tested applications.

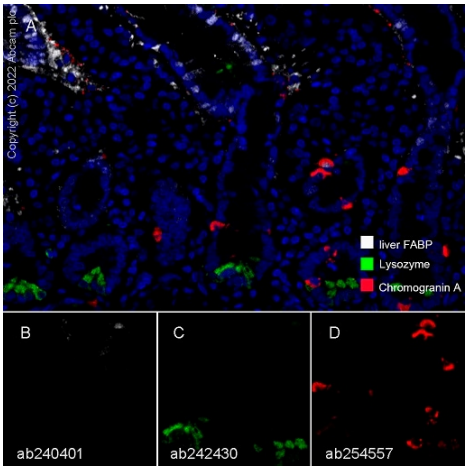
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 14 kDa (predicted molecular weight: 14 kDa).
mIHC		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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.

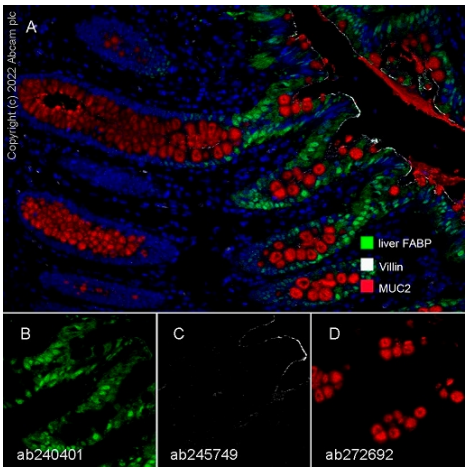
Images



Multiplex immunohistochemistry - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Fluorescence multiplex immunohistochemical analysis of the human duodenum (Formalin/PFA-fixed paraffin-embedded sections). Panel A: merged staining of anti-liver FABP (ab240401, gray; Opal™690), anti-Lysozyme (**ab242430**, green; Opal™520) and anti-Chromogranin A (**ab254557**, red; Opal™570) on human duodenum. Panel B: anti-liver FABP stained on enterocytes. Panel C: anti-Lysozyme stained on Paneth cells. Panel D: anti-Chromogranin A stained on neuroendocrine cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of ab240401 (1/8000 dilution), **ab242430** (1:250 dilution), and **ab254557** (1/5000 dilution) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).

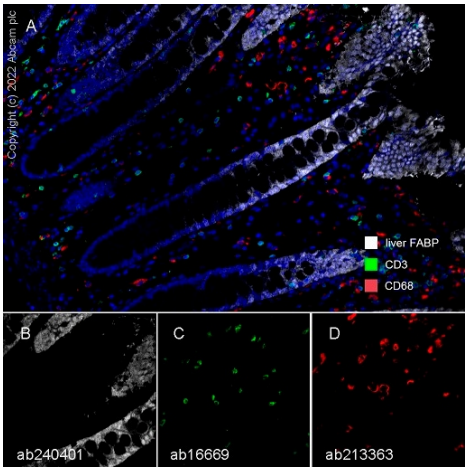


Multiplex immunohistochemistry - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Fluorescence multiplex immunohistochemical analysis of the human colon (Formalin/PFA-fixed paraffin-embedded sections). Panel A: merged staining of anti-Villin (**ab245749**, gray; Opal™690), anti-liver FABP (ab240401, green; Opal™520) and anti-MUC2 (**ab272692**, red; Opal™570) on human colon. Panel B: anti-liver FABP stained on enterocytes. Panel C: anti-Villin stained on apical border. Panel D: anti-MUC2 stained on goblet cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of **ab245749** (1/1000 dilution), ab240401 (1/8000 dilution), and **ab272692** (1/5000 dilution) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

This data was developed using the same antibody clone in a

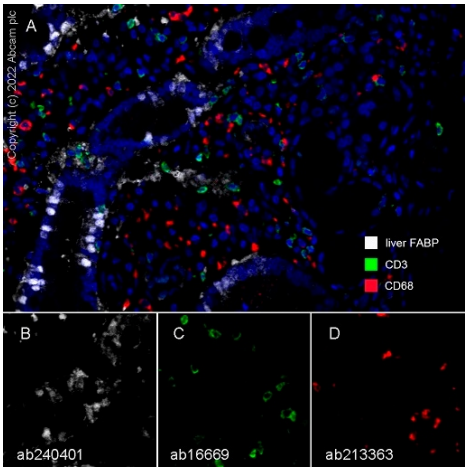
different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



Multiplex immunohistochemistry - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Fluorescence multiplex immunohistochemical analysis of the human colon (Formalin/PFA-fixed paraffin-embedded sections). Panel A: merged staining of anti-liver FABP (ab240401, gray; Opal™690), anti-CD3 (**ab16669**, green; Opal™520) and anti-CD68 (**ab213363**, red; Opal™570) on human colon. Panel B: anti-liver FABP stained on enterocytes. Panel C: anti-CD3 stained on T cells. Panel D: anti-CD68 stained on macrophages. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of ab240401 (1/8000 dilution), **ab16669** (1/150 dilution), and **ab213363** (1/500 dilution) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).

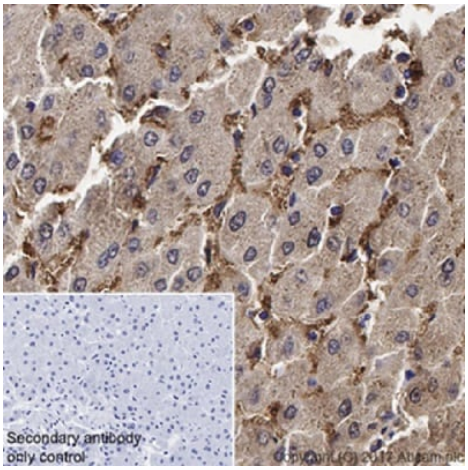


Multiplex immunohistochemistry - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Fluorescence multiplex immunohistochemical analysis of the human duodenum (Formalin/PFA-fixed paraffin-embedded sections). Panel A: merged staining of anti-liver FABP (ab240401, gray; Opal™690), anti-CD3 (**ab16669**, green; Opal™520) and anti-CD68 (**ab213363**, red; Opal™570) on human duodenum. Panel B: anti-liver FABP stained on enterocytes. Panel C: anti-CD3 stained on T cells. Panel D: anti-CD68 stained on macrophages. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of ab240401 (1/8000 dilution), **ab16669** (1/150 dilution), and **ab213363** (1/500 dilution) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide (**ab222517**).



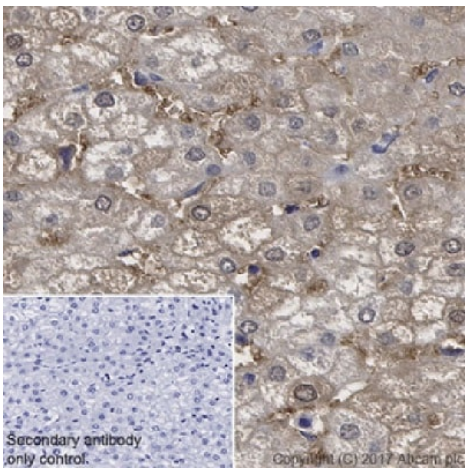
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling liver FABP with **ab222517** at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on human hepatocytes and sinusoids (PMID: 3123629). Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



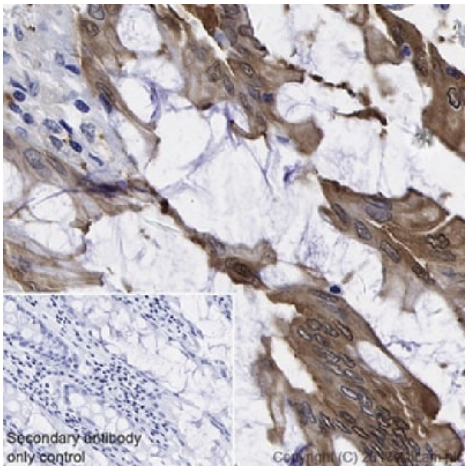
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma tissue labeling liver FABP with **ab222517** at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic and weak nuclear staining on human hepatocellular carcinoma. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



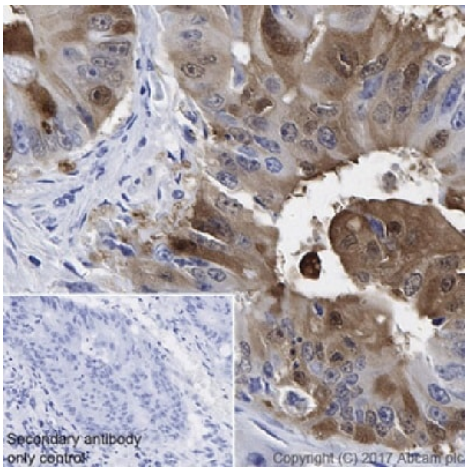
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling liver FABP with **ab222517** at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic and weak nuclear staining on human colon (PMID: 15138477). Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



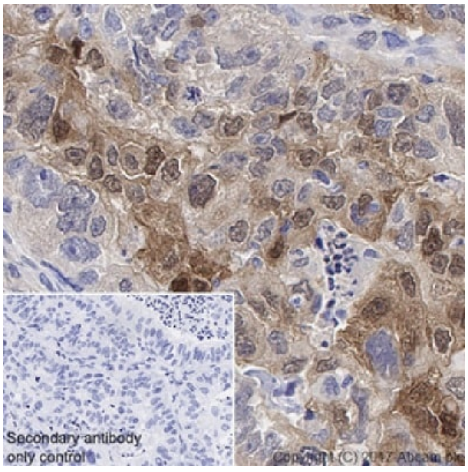
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue labeling liver FABP with **ab222517** at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic and nuclear staining on human colon cancer (PMID: 15138477). Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



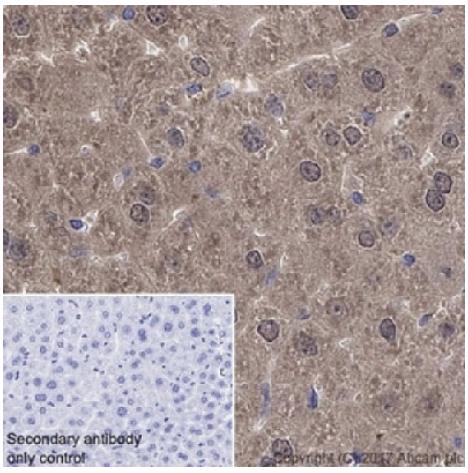
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunohistochemical analysis of paraffin-embedded human gastric cancer tissue labeling liver FABP with **ab222517** at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear and cytoplasmic staining on human gastric cancer (PMID: 15051923). Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



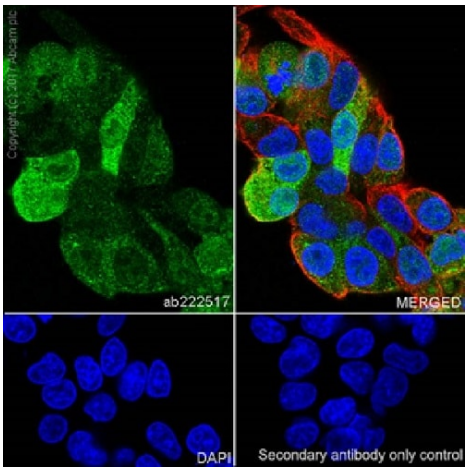
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling liver FABP with **ab222517** at 1/3000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear and cytoplasmic staining on rat liver is observed. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).

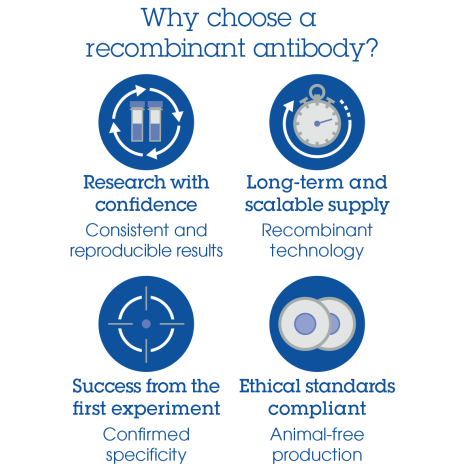


Immunocytochemistry/ Immunofluorescence - Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Immunofluorescent analysis of 4% paraformaldehyde fixed, 0.1% tritonX-100 permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labeling liver FABP with **ab222517** at 1/100 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear and cytoplasmic staining on HepG2 cell line. Nuclear counterstain DAPI (blue). Counterstain Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (red).

The negative control was secondary antibody only.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222517**).



Anti-liver FABP antibody [EPR20464] - BSA and Azide free (ab240401)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors