Product datasheet

Anti-FBP1 antibody [EPR4619] ab109020

Overview

Product name: Anti-FBP1 antibody [EPR4619]
Description: Rabbit monoclonal [EPR4619] to FBP1
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Unsuitable for: ICC/IF
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide within Human FBP1 aa 50-150. The exact sequence is proprietary.
Positive control: HL60 lysate treated with vitamin D3, MCF7 and Human fetal liver lysates; Human kidney and liver tissues.

General notes

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated ‘PUR’ on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity: Protein A purified
Clonality: Monoclonal
Clone number

EPR4619

Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab109020 in the following tested applications.

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

<table>
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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<td>WB</td>
<td>1/1000 - 1/10000. Predicted molecular weight: 37 kDa.</td>
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<tr>
<td>IHC-P</td>
<td>1/50 - 1/100. Heat up to 98 °C, below boiling, and then let cool for 10-20 min.</td>
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Application notes

Is unsuitable for ICC/IF.

Target

Pathway

Carbohydrate biosynthesis; gluconeogenesis.

Involvement in disease

Defects in FBP1 are the cause of fructose-1,6-bisphosphatase deficiency (FBPD) [MIM:229700]. FBPD is inherited as an autosomal recessive disorder mainly in the liver and causes life-threatening episodes of hypoglycemia and metabolic acidosis (lactacidemia) in newborn infants or young children.

Sequence similarities

Belongs to the FBPase class 1 family.

Images

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FBP1 antibody [EPR4619] (ab109020)

ab109020 at 1:500 staining Anti-FBP1 antibody in mouse kidney tissue by immunohistochemistry (FFPE).

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling FBP1 with ab109020 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP). Counter stained with hematoxylin.
All lanes: Anti-FBP1 antibody [EPR4619] (ab109020) at 1/10000 dilution (purified)

Lane 1: Mouse liver
Lane 2: Rat liver

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 37 kDa
Observed band size: 37 kDa

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST

All lanes: Anti-FBP1 antibody [EPR4619] (ab109020) at 1/2000 dilution (purified)

Lane 1: MCF7 cell lysate
Lane 2: HL-60 cell lysate treated with vitamin D3

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: HRP goat anti-rabbit (H+L) at 1/2000 dilution

Predicted band size: 37 kDa
Observed band size: 37 kDa

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST
ab109020 at 1:500 staining Anti-FBP1 antibody in human liver tissue by immunohistochemistry (FFPE).

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling FBP1 with ab109020 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP). Counter stained with hematoxylin.

All lanes: Anti-FBP1 antibody [EPR4619] (ab109020) at 1/1000 dilution (unpurified)

Lane 1: MCF7 lysate
Lane 2: Human fetal liver lysate
Lane 3: HL60 lysate, treated with vitamin D3

Lysates/proteins at 10 µg per lane.

Predicted band size: 37 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST
Unpurified ab109020 at 1/50 dilution staining FBP1 in Human Kidney by immunohistochemistry, paraffin-embedded tissue.

Unpurified ab109020 at 1/50 dilution staining FBP1 in Human liver by immunohistochemistry, paraffin-embedded tissue.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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