Product datasheet

Anti-Asialoglycoprotein Receptor 2 antibody [EPR16974] ab197032

Overview

Product name: Anti-Asialoglycoprotein Receptor 2 antibody [EPR16974]
Description: Rabbit monoclonal [EPR16974] to Asialoglycoprotein Receptor 2
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, IP
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide within Human Asialoglycoprotein Receptor 2 aa 1-100. The exact sequence is proprietary.
Database link: P07307
Positive control: Human fetal liver lysate, HepG2 whole cell lysate, Human liver tissue.

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
This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR16974
Isotype: IgG
Function
Mediates the endocytosis of plasma glycoproteins to which the terminal sialic acid residue on their complex carbohydrate moieties has been removed. The receptor recognizes terminal galactose and N-acetylgalactosamine units. After ligand binding to the receptor, the resulting complex is internalized and transported to a sorting organelle, where receptor and ligand are disassociated. The receptor then returns to the cell membrane surface.

Tissue specificity
Expressed exclusively in hepatic parenchymal cells.

Sequence similarities
Contains 1 C-type lectin domain.

Cellular localization
Membrane.

Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000</td>
<td>Detects a band of approximately 46 kDa (predicted molecular weight: 35 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/500</td>
<td>Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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<tr>
<td>IP</td>
<td>1/70</td>
<td></td>
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Target

Images
All lanes: Anti-Asialoglycoprotein Receptor 2 antibody [EPR16974] (ab197032) at 1/1000 dilution

Lane 1: Human fetal liver lysate
Lane 2: MCF-7 (Human breast adenocarcinoma cell line) whole cell lysate
Lane 3: K562 (Human chronic myelogenous leukemia cells from bone marrow) whole cell lysate
Lane 4: Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate
Lane 5: HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 35 kDa
Observed band size: 46 kDa

Exposure time: 3 minutes

Blocking and diluting buffer was 5% NFDM/TBST.

The observed MW is consistent with that described in the literature (PMID:3040719).
Anti-Asialoglycoprotein Receptor 2 antibody [EPR16974] (ab197032) at 1/2000 dilution + HepG2 (Human liver hepatocellular carcinoma) whole cell lysate at 20 µg

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Immunohistochemical analysis of paraffin-embedded human liver tissue labeling  
Asialoglycoprotein Receptor 2 with ab197032 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500. Cell membrane staining on Human liver tissue is observed; Uniprot suggests Cell membrane as subcellular location. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500.
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue (negative control tissue) using ab197032 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500. No staining on Human tonsil tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary ab, secondary ab is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500.

Asialoglycoprotein Receptor 2 was immunoprecipitated from Human fetal liver with ab197032 at 1/70 dilution. Western blot was performed from the immunoprecipitate using ab197032 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution. Lane 1: Human fetal liver.

Lane 2: Rabbit monoclonal IgG (ab172730) instead of ab197032 in Human fetal liver.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

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