

Product datasheet

Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] ab254262

Recombinant RabMAb

[3 References](#) [9 Images](#)

Overview

Product name	Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17]
Description	Rabbit monoclonal [EPR22642-17] to Asialoglycoprotein Receptor 1/HL-1
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P, Flow Cyt, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human adult liver tissue lysate; HepG2 cell lysate. IHC-P: Human liver and liver cancer tissue. ICC/IF: HepG2 cells. Flow: HepG2 cells. IP: HepG2 whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22642-17

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab254262 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. Detects a band of approximately 40-50 kDa (predicted molecular weight: 33 kDa).
ICC/IF		1/100.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/500.
IP		1/30.

Target

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.

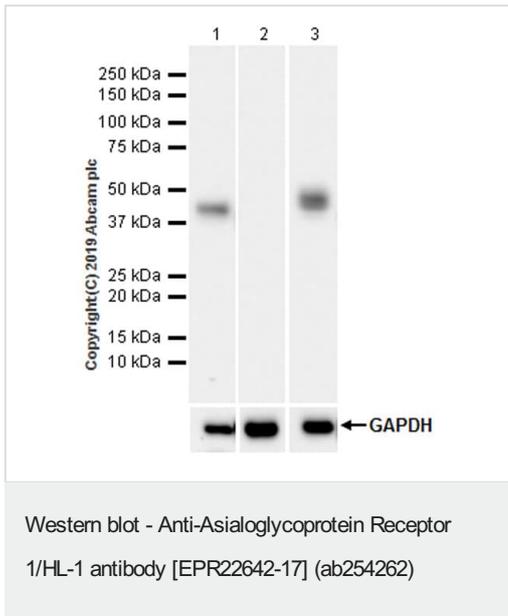
Post-translational modifications

Phosphorylated on a cytoplasmic Ser residue.

Cellular localization

Membrane.

Images



All lanes : Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262) at 1/1000 dilution

Lane 1 : Human adult liver tissue lysate

Lane 2 : Human brain tissue lysate

Lane 3 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lanes 1-2 : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

Lane 3 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 33 kDa

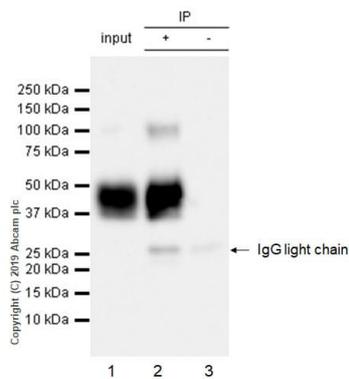
Observed band size: 40-50 kDa

Negative control: human brain.

The diffuse bands between 40-50 kDa are likely due to glycosylation (PMID:30965276).

The expression profile is consistent with what has been described in the literature (PMID:27241665, 29858079).

Blocking/diluting buffer and concentration: 5% NFDM/TBST



Immunoprecipitation - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Asialoglycoprotein Receptor 1/HL-1 antibody was immunoprecipitated from 0.35 mg HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate 10µg with ab254262 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab254262 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used as the secondary antibody at 1/5000 dilution.

Lane 1: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate 10µg

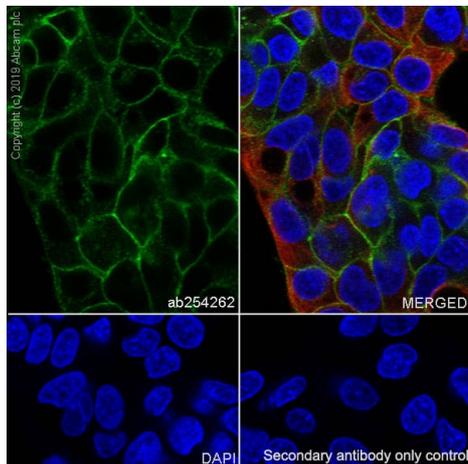
Lane 2: ab254262 IP in HepG2 whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab254262 in HepG2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 7 seconds.

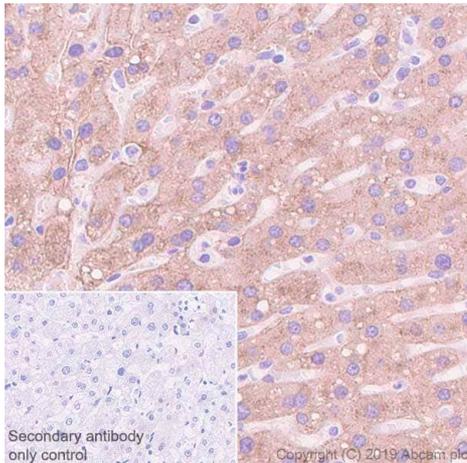
The band at around 100kDa is described as dimers (PMID: 7663158).



Immunocytochemistry/ Immunofluorescence - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (human hepatocellular carcinoma epithelial cell line) cells labelling Asialoglycoprotein Receptor 1/HL-1 antibody with ab254262 at 1/100 dilution, followed by [ab150077](#) AlexaFluor[®]488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing membranous and weak cytoplasmic staining in HepG2 cells. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) was used to counter stain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab150077](#) AlexaFluor[®]488 Goat anti-Rabbit secondary at 1/1000 dilution.

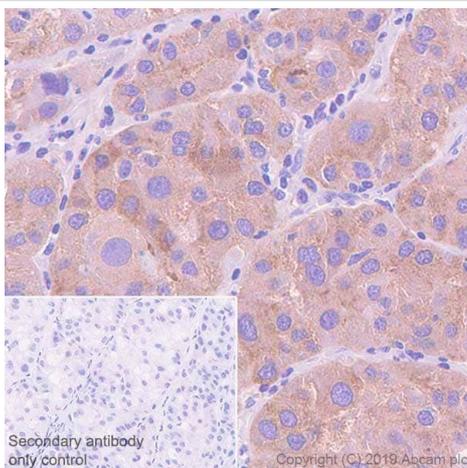


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Asialoglycoprotein Receptor 1/HL-1 antibody with ab254262 at 1/1000 dilution (0.5 µg/ml) followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in human liver (PMID:23979840, 26422581, 27241665) is observed.

The section was incubated with ab254262 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

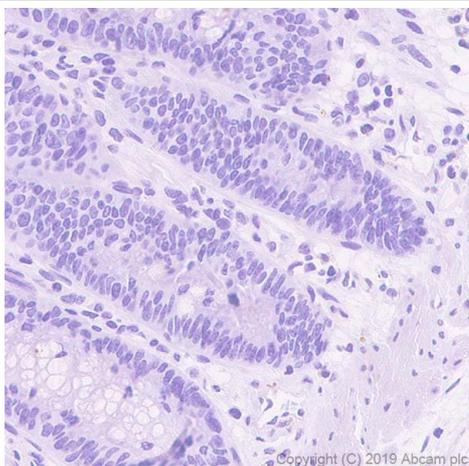


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue labeling Asialoglycoprotein Receptor 1/HL-1 antibody with ab254262 at 1/1000 dilution (0.5 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in human liver cancer (PMID:23979840,26422581,27241665) is observed.

The section was incubated with ab254262 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).



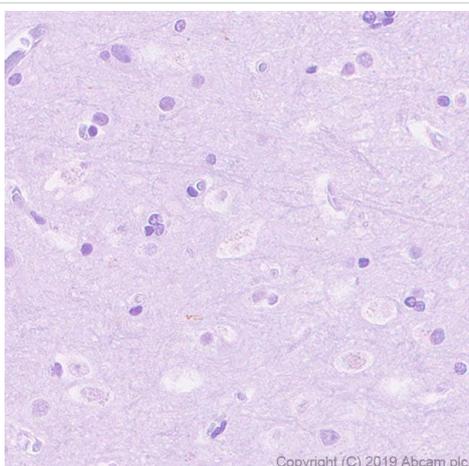
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Negative control: No staining in human colon (PMID:23979840).

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Asialoglycoprotein Receptor 1/HL-1 antibody with ab254262 at 1/1000 dilution (0.5 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

The section was incubated with ab254262 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



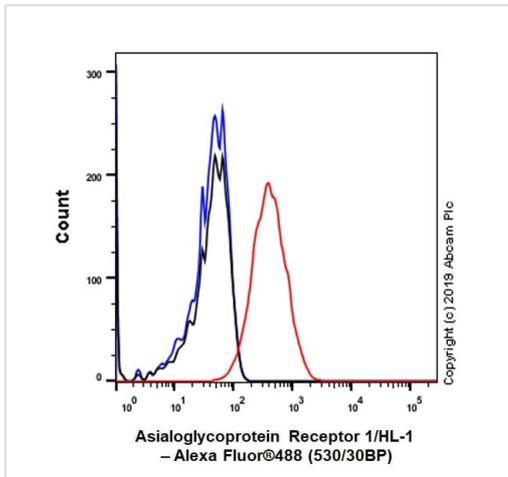
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Negative control: No staining in human cerebrum (PMID:23979840)

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling Asialoglycoprotein Receptor 1/HL-1 antibody with ab254262 at 1/1000 dilution (0.5 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

The section was incubated with ab254262 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



Flow cytometric analysis of HepG2 (Human hepatocellular carcinoma epithelial cell line) cells labelling Asialoglycoprotein Receptor 1/HL-1 antibody with ab254262 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**, Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.

Flow Cytometry - Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Asialoglycoprotein Receptor 1/HL-1 antibody [EPR22642-17] (ab254262)

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