

Product datasheet

Anti-Glypican 3 antibody [EPR10641] - BSA and Azide free ab221498

KO VALIDATED Recombinant RabMAb

4 Images

Overview

Product name	Anti-Glypican 3 antibody [EPR10641] - BSA and Azide free
Description	Rabbit monoclonal [EPR10641] to Glypican 3 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt (Intra) Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Recombinant fragment. The exact sequence is proprietary. Database link: P51654
Positive control	HepG2 cell lysate; Human fetal liver lysate; HepG2 cells.
General notes	<p>ab221498 is the carrier-free version of ab174851.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <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</p>

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	EPR10641
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab221498 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

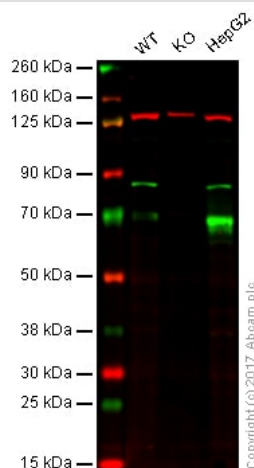
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 66 kDa.
Flow Cyt (Intra)		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

Target

Function	Cell surface proteoglycan that bears heparan sulfate. Inhibits the dipeptidyl peptidase activity of DPP4. May be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs. May play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function. May regulate growth and tumor predisposition.
Tissue specificity	Highly expressed in lung, liver and kidney.
Involvement in disease	Defects in GPC3 are the cause of Simpson-Golabi-Behmel syndrome type 1 (SGBS1) [MIM:312870]; also known as Simpson dysmorphia syndrome (SDYS). SGBS is a condition characterized by pre- and postnatal overgrowth (gigantism) with visceral and skeletal anomalies.
Sequence similarities	Belongs to the glypican family.
Cellular localization	Cell membrane and Secreted > extracellular space.

Images



Western blot - Anti-Glypican 3 antibody [EPR10641]
- BSA and Azide free (ab221498)

This data was developed using **ab174851**, the same antibody clone in a different buffer formulation.

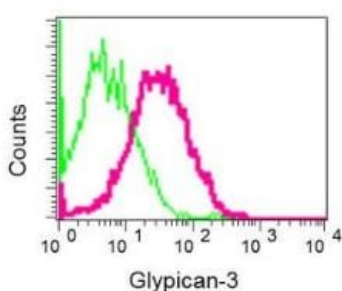
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: GPC3 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HepG2 whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - **ab174851** observed at 70 kDa. Red - loading control, **ab130007**, observed at 125 kDa.

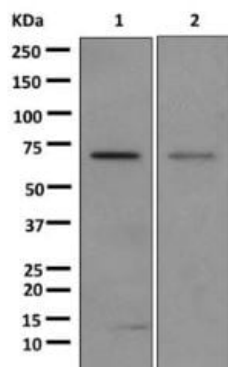
ab174851 was shown to recognize Glypican 3 in wild-type HAP1 cells as signal was lost at the expected MW in GPC3 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and GPC3 knockout samples were subjected to SDS-PAGE. **ab174851** and **ab130007** (Mouse anti-vinculin loading control) were incubated overnight at 4°C at 1/1000 and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-Glypican 3
antibody [EPR10641] - BSA and Azide free
(ab221498)

This data was developed using **ab174851**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of permeabilized HepG2 cells labeling Glypican 3 using **ab174851** at 1/10 dilution (red) or a rabbit IgG negative (green).



Western blot - Anti-Glypican 3 antibody [EPR10641]
- BSA and Azide free (ab221498)

All lanes : Anti-Glypican 3 antibody [EPR10641] (**ab174851**) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 66 kDa

This data was developed using **ab174851**, the same antibody clone in a different buffer formulation.

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-Glypican 3 antibody [EPR10641] - BSA and Azide free (ab221498)

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

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