abcam

Product datasheet

Anti-Glypican 1/ GPC1 antibody [EPR19285] ab199343

Recombinant RabMAb

5 References 6 Images

Overview

Product name	Anti-Glypican 1/ GPC1 antibody [EPR19285]
Description	Rabbit monoclonal [EPR19285] to Glypican 1/ GPC1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MDA-MB-231, MOLT-4, HepG2, K562, SH-SY5Y and MCF7 whole cell lysates; Human fetal kidney, colon and fetal spleen lysates. ICC/IF: MCF7 and MDA-MB-231 cells. Flow Cyt (intra): MDA-MB-231 cells.
General notes	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 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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR19285
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab199343 in the following tested applications.

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

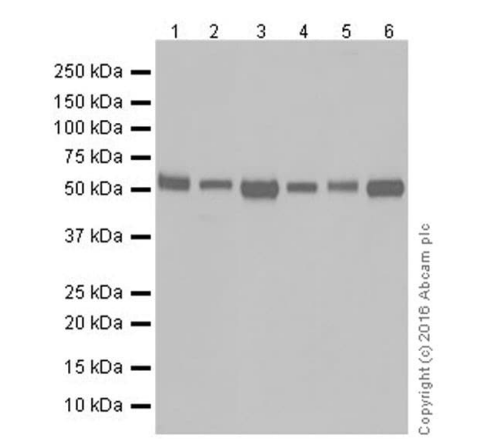
Application	Abreviews	Notes
Flow Cyt (Intra)		1/60. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000. Detects a band of approximately 55 kDa (predicted molecular weight: 61 kDa).
ICC/IF		1/500.

Application notes Is unsuitable for IHC-P.

Target

Function	Cell surface proteoglycan that bears heparan sulfate.
Sequence similarities	Belongs to the glypican family.
Post-translational modifications	This cell-associated glypican is further processed to give rise to a medium-released species.
Cellular localization	Cell membrane and Secreted > extracellular space.

Images



Western blot - Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343)

All lanes : Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343) at 1/1000 dilution

Lane 1 : MDA-MB-231 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : MOLT-4 (Human lymphoblastic leukemia cell line) whole cell lysate

Lane 3 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lane 4 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate

Lane 5 : SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

Lane 6 : MCF7 (Human breast adenocarcinoma cell line) whole

cell lysate

Lysates/proteins at 20 µg per lane.

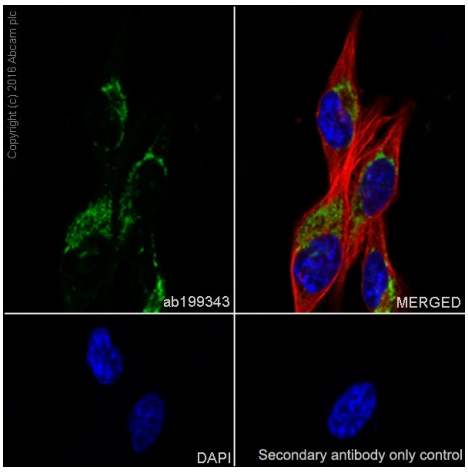
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 61 kDa
Additional bands at: 55 kDa (possible post-translational modification)

Exposure time: 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The molecular weight observed is consistent with the literature (PMID: 9802880).



Immunocytochemistry/ Immunofluorescence - Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343)

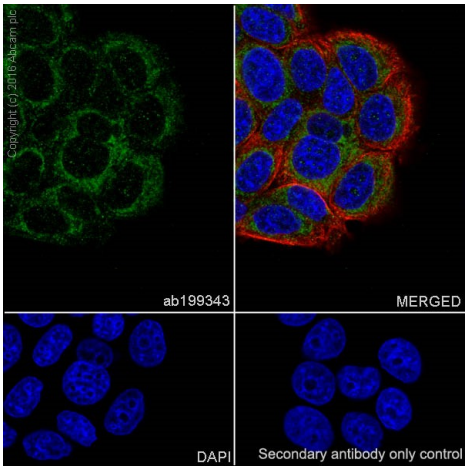
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MDA-MB-231 (Human breast adenocarcinoma cell line) cells labeling Glypican 1/ GPC1 with ab199343 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing membrane associated and cytoplasmic staining on MDA-MB-231 cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343)

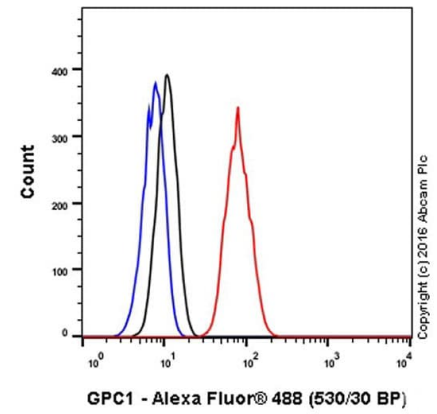
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF7 (Human breast adenocarcinoma cell line) cells labeling Glypican 1/ GPC1 with ab199343 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on MCF7 cell line.

The nuclear counterstain is DAPI (blue).

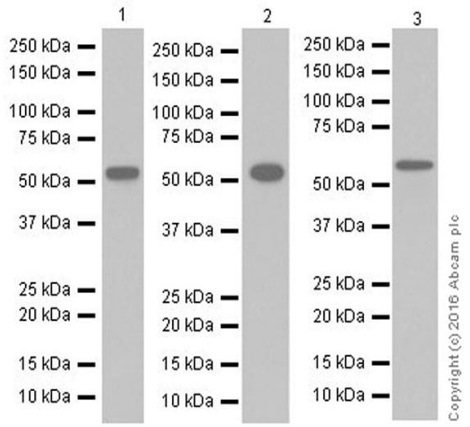
Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed MDA-MB-231 (Human breast adenocarcinoma cell line) cells labeling Glypican 1/ GPC1 with ab199343 at 1/60 dilution (red) compared with a RabbitIgG,monoclonal[EPR25A]-Isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti Rabbit IgG (Alexa Fluorr® 488) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343)

All lanes : Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343) at 1/1000 dilution

Lane 1 : Human fetal kidney lysate
Lane 2 : Human colon lysate
Lane 3 : Human fetal spleen lysate

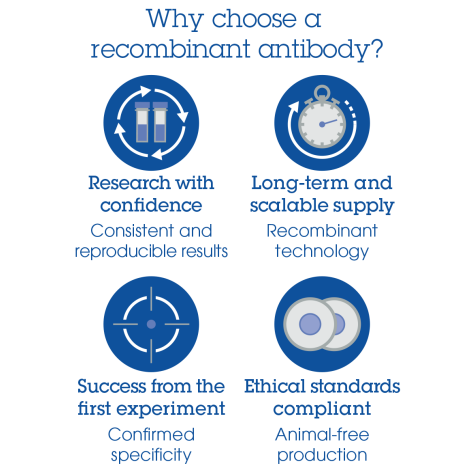
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 61 kDa
Observed band size: 55 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 5 seconds; Lanes 2 and 3: 10 seconds.



Anti-Glypican 1/ GPC1 antibody [EPR19285] (ab199343)

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