abcam

ab324378

Anti-GPC2 antibody [EPR30350-627]

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR30350-627
Purification technique	Affinity purification Protein A
Concentration	0.511 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

I-ELISA

Tested

Species	Recombinant full length protein - Human
Dilution info	15.625 ng/mL
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/200
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Mouse, Recombinant full length protein - Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Recombinant full length protein - Human
Dilution info	-
Notes	-

WB

Not recommended

Species	Human, Mouse, Recombinant full length protein - Human
Dilution info	-
Notes	-

mIHC

Tested

Species	Human
Dilution info	1/200
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Recombinant full length protein - Human, Mouse
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/50
Notes	-

Not recommended

Species	Recombinant full length protein - Human, Mouse
Dilution info	-
Notes	-

Target data

See full target information GPC2

Function	Cell surface proteoglycan that bears heparan sulfate. May fulfill a function related to the motile behaviors of developing neurons (By similarity).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

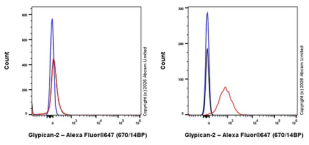
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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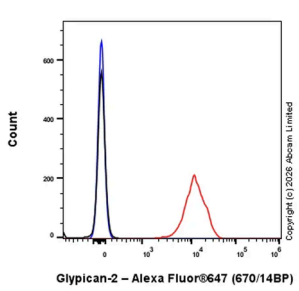
8 product images



Flow Cytometry - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Flow Cytometry staining using rabbit Anti-GPC2 antibody

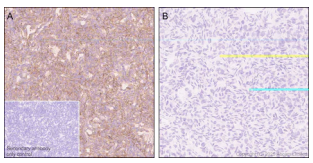
Flow cytometry overlay histogram of **Negative control**: HeLa (human cervical adenocarcinoma epithelial cells, Left) and IMR-32 (human neuroblastoma neuroblasts, Right) labelling GPC2 with ab324378 at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Secondary antibody details, Goat anti-Rabbit IgG (Alexa Fluor® 647 (ab150083), at 1/5000 dilution was used as the secondary antibody. Gated on viable cells.



Flow Cytometry - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Flow Cytometry staining of WERI-Rb-1 (human Eye Retina grape-like clusters of round cells) using rabbit Anti-GPC2 antibody

Flow cytometry overlay histogram of WERI-Rb-1 (human Eye Retina grape-like clusters of round cells) labelling GPC2 with ab324378 at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Secondary antibody details, Goat anti-Rabbit IgG (Alexa Fluor® 647 (ab150083), at 1/5000 dilution was used as the secondary antibody. Gated on viable cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GPC2 antibody

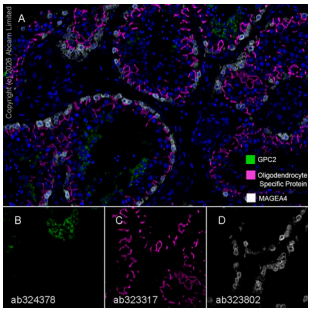
Immunohistochemical analysis of paraffin-embedded (A) IMR-32 (human neuroblastoma neuroblast) cell pellet and (B) HeLa (human cervical adenocarcinoma epithelial cell) cell pellet labeling GPC2 with ab324378 at 1/200 (2.555 ug/ml) dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880).

Positive staining on (A) IMR-32 cell pellet, no staining on (B) HeLa cell pellet.
The primary antibody was incubated overnight at 4°C.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Multiplex immunohistochemistry - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Multiplex immunohistochemistry staining of Human testis using rabbit Anti-GPC2 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human testis tissue staining GPC2 with ab324378 at a 1/200 dilution, ab323317 anti-Oligodendrocyte Specific Protein used at 1/500 dilution and ab323802 anti-MAGEA4 used at a 1/1000 dilution.
Panel A: anti-GPC2 (green; Opal™520), anti-Oligodendrocyte Specific Protein (magenta; Opal™690) and anti-MAGEA4 (gray; Opal™570) on human testis.

Panel B: anti-GPC2 staining early spermatids in human testis.

Panel C: anti-Oligodendrocyte Specific Protein staining apical Sertoli cell crypts in human testis.

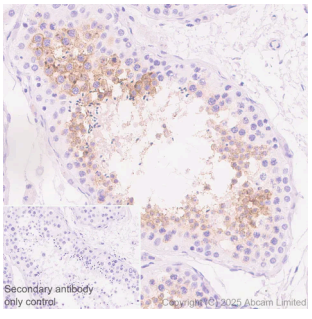
Panel D: anti-MAGEA4 staining spermatogonia in human testis.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab324378, ab323317 and ab323802 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human testis using rabbit Anti-GPC2 antibody

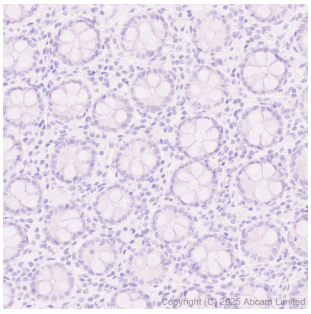
Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling GPC2 with ab324378 at 1/200 (2.555 ug/ml) dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880).

Positive staining on human testis.
The primary antibody was incubated overnight at 4°C.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human colon using rabbit Anti-GPC2 antibody

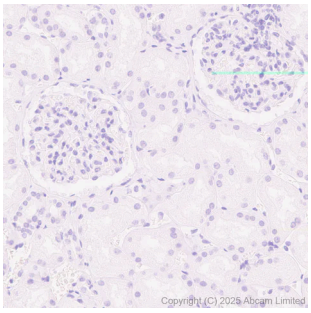
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling GPC2 with ab324378 at 1/200 (2.555 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining on human colon (PMID: 28739923).
The primary antibody was incubated overnight at 4°C.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPC2 antibody [EPR30350-627] (ab324378)

GPC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human kidney using rabbit Anti-GPC2 antibody

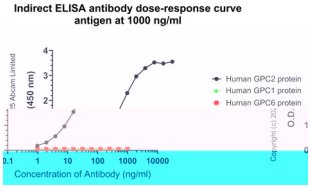
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling GPC2 with ab324378 at 1/200 (2.555 ug/ml) dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880).

Negative control: No staining on human kidney (PMID: 28739923).
The primary antibody was incubated overnight at 4°C.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Indirect ELISA - Anti-GPC2 antibody [EPR30350-627] (ab324378)

Indirect ELISA analysis of ab324378 at 1000-0 ng/ml. The Secondary antibody used was Peroxidase AffiniPure Goat Anti-Rabbit IgG, Fc fragment specific at 1:20000 dilution dilution.

Antigen: Human GPC2 protein, Human GPC6 protein, Human GPC1 protein.

Antigen concentration: 1000 ng/ml

This antibody does not cross-react with human GPC1 and GPC6.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.