abcam

ab327789

Anti-CD59A glycoprotein antibody [EPR31123-553] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR31123-553
Purification technique	Affinity purification Protein A

Reactivity data

Flow Cyt

Tested

Species	Transfected cell line - Mouse, Mouse
Dilution info	-
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

Dot

Tested

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Transfected cell line - Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Mouse, Recombinant fragment - Mouse

Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Transfected cell line - Mouse, Recombinant fragment - Mouse
Dilution info	-
Notes	-

WB

Not recommended

Species	Mouse, Transfected cell line - Mouse, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Target data

See full target information Cd59a

Function Potent inhibitor of the complement membrane attack complex (MAC) action, which protects self-cells from damage during complement activation. Acts by binding to the beta-haipins of C8 (C8A and C8B) components of the assembling MAC, forming an intermolecular beta-sheet that prevents incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab327789 is the carrier-free version of ab327784

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility

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.

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

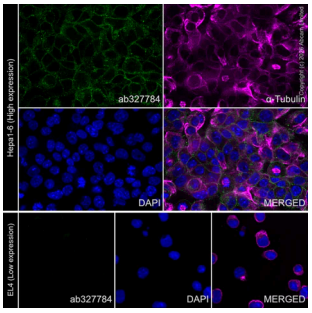
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images



Immunocytochemistry/ Immunofluorescence - Anti-CD59A glycoprotein antibody [EPR31123-553] - BSA and Azide free (ab327789)

CD59A glycoprotein Immunocytochemistry/ Immunofluorescence staining of Hepa1-6 (mouse hepatoma epithelial cell) using rabbit Anti-CD59A glycoprotein antibody

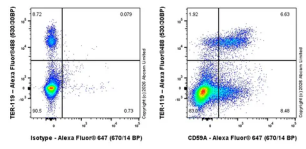
This data was developed using ab327784, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Hepa1-6 (mouse hepatoma epithelial cell) EL4 (mouse lymphoma T lymphocyte) cells labelling with ab327784 at 1/50 (10.12 µg/ml) dilution , followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing membranous staining in Hepa1-6 and no staining in EL4 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Low expression: EL4. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used to counterstain tubulin at 1/1000 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry - Anti-CD59A glycoprotein antibody [EPR31123-553] - BSA and Azide free (ab327789)

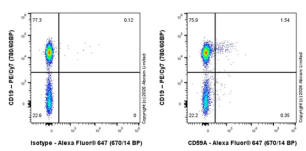
CD59A glycoprotein Flow Cytometry staining of Mouse Blood using rabbit Anti-CD59A glycoprotein antibody

This data was developed using ab327784, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Mouse Blood cells labelling with ab327784 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells. Cells were co-stained with TER-119 conjugated to Alexa Fluor®488.



Flow Cytometry - Anti-CD59A glycoprotein antibody [EPR31123-553] - BSA and Azide free (ab327789)

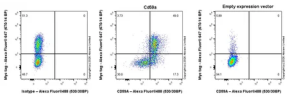
CD59A glycoprotein Flow Cytometry staining of Mouse spleen cell using rabbit Anti-CD59A glycoprotein antibody

This data was developed using ab327784, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Mouse spleen cell cells labelling with ab327784 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells. Cells were co-stained with CD19 conjugated to PE/CY7.



Flow Cytometry - Anti-CD59A glycoprotein antibody [EPR31123-553] - BSA and Azide free (ab327789)

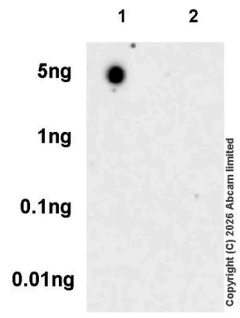
CD59A glycoprotein Flow Cytometry staining using rabbit Anti-CD59A glycoprotein antibody

This data was developed using ab327784, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized 293T cells (human embryonic kidney epithelial cell) transfected with a mouse Cd59a expression vector containing a Myc-His-tag® (Middle) 293T cells transfected with an empty expression vector containing a myc-His-tag® (Right) cells labelling with ab327784 at 1/500 dilution (0.1ug) / Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were surface stained with isotype control or our antibody. Then fixed with 4% PFA for 10min followed by intracellularly stained with anti-myc tag conjugated to Alexa Fluor® 647.



Dot Blot - Anti-CD59A glycoprotein antibody [EPR31123-553] - BSA and Azide free (ab327789)

CD59A glycoprotein Dot Blot staining using rabbit Anti-CD59A glycoprotein antibody

This data was developed using ab327784, the same antibody clone in a different buffer formulation.

Dot blot analysis of using ab327784 at 1:1000 (0.506 µg/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

Lane 1: No tagged mouse CD59A glycoprotein protein

Lane 2: No tagged mouse CD59B glycoprotein protein

Exposure time: 180 seconds.

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

This antibody does not cross-react with mouse CD59B glycoprotein.

All lanes:

Dot Blot - Anti-CD59A glycoprotein antibody [EPR31123-553] (ab327784) at 1/1000 dilution

Lane 1:
No tagged mouse CD59A glycoprotein protein

Lane 2:
No tagged mouse CD59B glycoprotein protein

Secondary

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

Exposure time: 180s

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