abcam

ab324068

Anti-CD55 antibody [EPR28962-549] - 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	EPR28962-549
Purification technique	Affinity purification Protein A
Specificity	This antibody does not cross-react with mouse DAF2
Concentration	0.978 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Dot

Tested

Species	Transfected cell lysate - Mouse

Dilution info	-
Notes	-

Expected

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

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-
Notes	-

IHC-P

Not recommended

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

WB

Not recommended

Species	Mouse, Transfected cell lysate - Mouse
Dilution info	-

Notes	-

Target data

See full target information Cd55

Function	This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade. Inhibits complement activation by destabilizing and preventing the formation of C3 and C5 convertases, which prevents complement damage.

Storage

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

Notes

ab324068 is the carrier free version of ab324067.

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

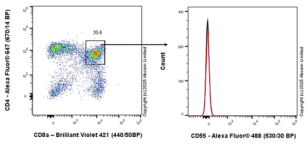
We do not recommend this combination. It is not covered by our product promise.

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.

4 product images



Flow Cytometry - Anti-CD55 antibody [EPR28962-549] - BSA and Azide free (ab324068)

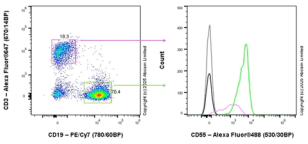
CD55 Flow Cytometry staining of Mouse thymus cell using rabbit Anti-CD55 antibody

This data was developed using ab323067, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Mouse thymus cell cells labelling CD55 with ab324067 at 1/50 dilution (1 ug) / Right compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled 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.

Mouse thymus cells were co-stained with CD8 conjugated BV421 and CD4 conjugated Alexa Fluor®647.
Gated on viable CD8+CD4+ double positive population (PMID: 25367120).



Flow Cytometry - Anti-CD55 antibody [EPR28962-549] - BSA and Azide free (ab324068)

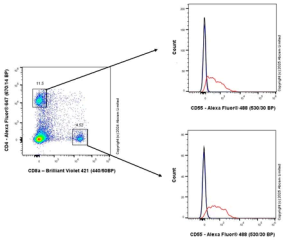
CD55 Flow Cytometry staining of Mouse splenocytes using rabbit Anti-CD55 antibody

This data was developed using ab323067, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Mouse splenocytes cells labelling CD55 with ab324067 at 1/500 dilution (0.1 ug) / Right compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 488) (ab199091) (Black) and Grey isotype control and an unlabeled 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.

Mouse splenocytes were co-stained with CD19 conjugated PE/Cy7 (Green) and CD3 conjugated Alexa Fluor®647 (Magenta).
Gated on viable cells.
PMID: 11683961



Flow Cytometry - Anti-CD55 antibody [EPR28962-549] - BSA and Azide free (ab324068)

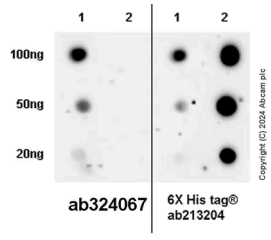
CD55 Flow Cytometry staining of Mouse splenocytes using rabbit Anti-CD55 antibody

This data was developed using ab323067, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Mouse splenocytes cells labelling CD55 with ab324067 at 1/50 dilution (1 ug) / Right compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled 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.

Mouse splenocytes (Right) were co-stained with CD8 conjugated BV421 and CD4 conjugated Alexa Fluor®647.
Gated on viable CD8-CD4+ (Upper left) and CD4-CD8+ (Lower left) single positive populations (PMID: 25367120).



Dot Blot - Anti-CD55 antibody [EPR28962-549] - BSA and Azide free (ab324068)

CD55 Dot Blot staining using rabbit Anti-CD55 antibody

This data was developed using ab323067, the same antibody clone in a different buffer formulation.

Dot blot analysis of CD55 using ab324067 at 1:1000 (0.489 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

Lane 1: 293T cells transfected with a mouse CD55 expression vector containing a myc-His-tag®, whole cell lysate
Lane 2: 293T cells transfected with a mouse DAF2 expression vector containing a myc-His-tag®, whole cell lysate

Exposure time: 180 seconds.

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

This antibody does not cross-react with mouse DAF2 .

In Dot Blot, Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) staining at 1/5000 dilution.
All lanes:
Dot Blot - Anti-CD55 antibody [EPR28962-549] (ab324067) at 1/1000 dilution

Lane 1:
293T cells transfected with a mouse CD55 expression vector containing a myc-His-tag®, whole cell lysate

Lane 2:
293T cells transfected with a mouse DAF2 expression vector containing a myc-His-tag®, whole cell lysate

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'.