abcam

ab254006

Anti-CD39 antibody [EPR22507-48] - 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	EPR22507-48
Purification technique	Affinity purification Protein A
Concentration	Concentration data is not available right now, please try again later Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

WB

Expected

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

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Entpd1

Function	Catalyzes the hydrolysis of nucleoside triphosphates (NTPs) and diphosphates (NDPs) (By similarity). The enzyme sequentially removes phosphate groups in two successive steps, converting NTPs to nucleoside monophosphates (NMPs) via NDP intermediates (By similarity). This activity contributes to the regulation of extracellular levels of nucleotides (By similarity). By hydrolyzing proinflammatory ATP and platelet-activating ADP to AMP, it blocks platelet aggregation and supports blood flow (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab254006 is the carrier-free version of ab227840.

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.

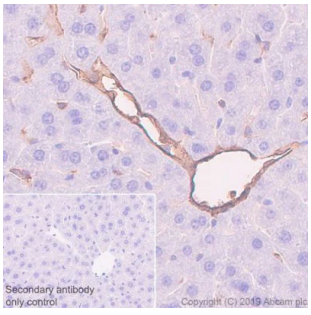
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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5 product images



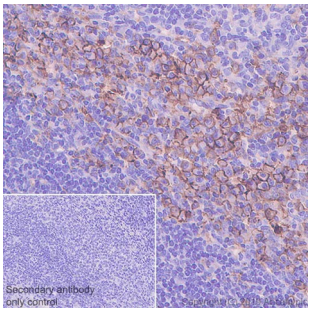
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR22507-48] - BSA and Azide free (ab254006)

CD39 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD39 antibody

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling CD39 with ab227840 at 1/500 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on blood vessels of mouse liver (PMID: 18567823). The section was incubated with ab227840 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227840).



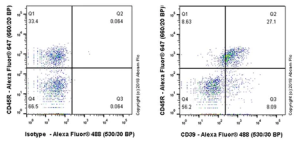
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR22507-48] - BSA and Azide free (ab254006)

CD39 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD39 antibody

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD39 with ab227840 at 1/500 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Membranous staining on mouse spleen (PMID: 18567823). The section was incubated with ab227840 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

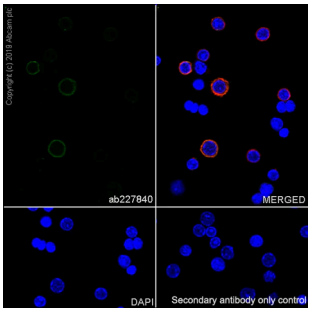
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227840).



Flow Cytometry - Anti-CD39 antibody [EPR22507-48] - BSA and Azide free (ab254006)

CD39 Flow Cytometry staining using rabbit Anti-CD39 antibody

Flow cytometric analysis of mouse splenocytes labeling CD39 with ab227840 at 1/500. Cells were stained with rabbit IgG (Left panel) or ab227840 (Right panel). Then stained with anti-CD45R conjugated to Alexa Fluor® 647. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227840).

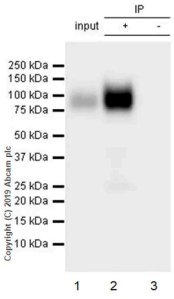


Immunocytochemistry/ Immunofluorescence - Anti-CD39 antibody [EPR22507-48] - BSA and Azide free (ab254006)

CD39 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD39 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse splenocytes labeling CD39 with ab227840 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous staining in subsets of mouse splenocyte. The nuclear stain is DAPI (blue). Counterstained with Anti-CD45R/B220 Antibody (Alexa Fluor® 647) at a 1/200 dilution (red).
Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227840).



Immunoprecipitation - Anti-CD39 antibody [EPR22507-48] - BSA and Azide free (ab254006)

CD39 was immunoprecipitated from 0.35 mg mouse placenta lysate with ab227840 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab227840 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1000 dilution.
Lane 1: Mouse placenta lysate 10 µg (Input).
Lane 2: ab227840 IP in mouse placenta lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab227840 in mouse placenta lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab227840).

All lanes:
Immunoprecipitation - Anti-CD39 antibody [EPR22507-48] (ab227840)

Predicted band size: 58 kDa

Observed band size: 78 kDa

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