abcam

ab227840

Anti-CD39 antibody [EPR22507-48]

Recombinant | RabMAb | 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	EPR22507-48
Purification technique	Affinity purification Protein A
Concentration	0.512 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/500
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/100
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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	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.

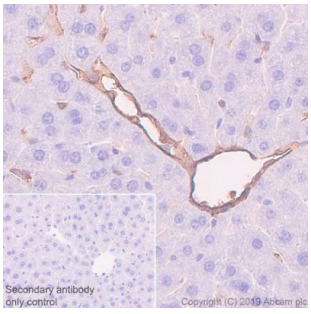
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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6 product images

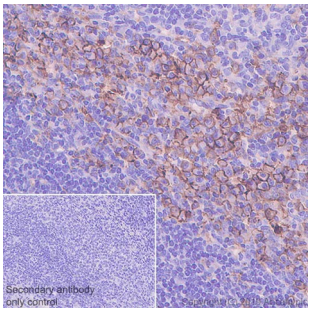


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR22507-48] (ab227840)

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.

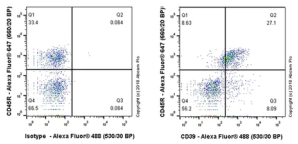


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR22507-48] (ab227840)

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).

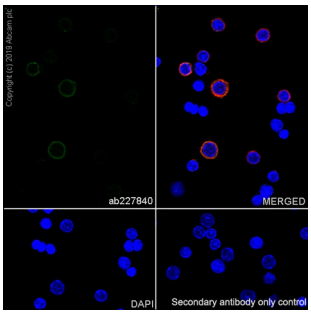
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Flow Cytometry - Anti-CD39 antibody [EPR22507-48] (ab227840)

CD39 Flow Cytometry staining using rabbit Anti-CD39 antibody

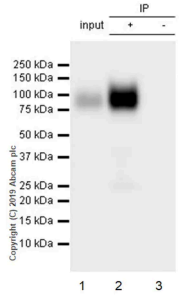
Flow cytometric analysis of mouse splenocytes labeling CD39 with ab227840 at 1/500. Cells were stained with rabbit IgG Isotype control (ab172730) (Left panel) or ab227840 (Right panel). Then stained with anti-CD45R conjugated to Alexa Fluor® 647. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.



Immunocytochemistry/ Immunofluorescence - Anti-CD39 antibody [EPR22507-48] (ab227840)

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.



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

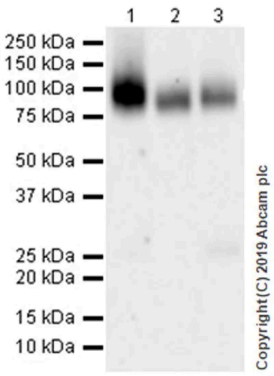
CD39 was immunoprecipitated from 0.35 mg mouse placenta lysate with ab227840 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab227840 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1000 dilution.
Lane 1: Mouse placenta 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.

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

Predicted band size: 58 kDa

Observed band size: 78 kDa



Western blot - Anti-CD39 antibody [EPR22507-48] (ab227840)

CD39 Western blot staining using rabbit Anti-CD39 antibody

The molecular weight observed is consistent with what has been described in the literature (PMID:18036594).
Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-CD39 antibody [EPR22507-48] (ab227840) at 1/1000 dilution

Lane 1:
Mouse placenta lysate at 20 µg

Lane 2:
Mouse heart lysate at 20 µg

Lane 3:
Mouse spleen lysate at 20 µg

Secondary

Lanes 1 - 2:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Lane 3:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 58 kDa

Observed band size: 78 kDa

Exposure time: 81s

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