abcam

# ab300065

# Anti-CD39 antibody [EPR26473-58]

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** | EPR26473-58 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.556 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/2000 |
| **Notes** | Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

### Not recommended

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

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | - |
| **Notes** | Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/500 |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Mouse, Rat |

| | |
|---|---|
| **Dilution info** | - |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/30 |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/50 |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## IHC-Fr

### Not recommended

| | |
|---|---|
| **Species** | Human, Rat, Mouse |
| **Dilution info** | - |

| | |
|---|---|
| **Notes** | - |

## Target data

See full target information ENTPD1

| | |
|---|---|
| **Function** | Catalyzes the hydrolysis of nucleoside triphosphates (NTPs) and diphosphates (NDPs) (Probable) (PubMed:8529670, PubMed:8626624, PubMed:8955160, PubMed:8996251). The enzyme sequentially removes phosphate groups in two successive steps, converting NTPs to nucleoside monophosphates (NMPs) via NDP intermediates (Probable) (PubMed:8529670, PubMed:8626624, PubMed:8955160, PubMed:8996251). This activity contributes to the regulation of extracellular levels of nucleotides (Probable) (PubMed:8529670, PubMed:8626624, PubMed:8955160, PubMed:8996251). By hydrolyzing proinflammatory ATP and platelet-activating ADP to AMP, it blocks platelet aggregation and supports blood flow (PubMed:8955160, PubMed:8996251). |

## 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**

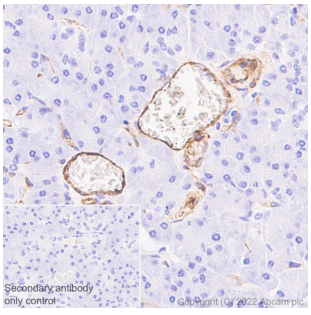
We do not recommend this combination. It is not covered by our product promise.

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.

## 10 product images

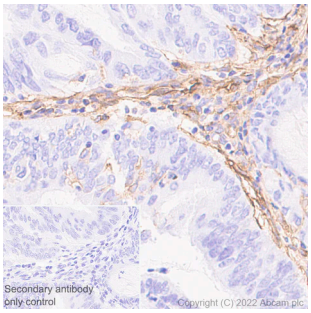



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR26473-58] (ab300065)

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

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labelling with ab300065 at 1/2000 (0.295 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used. Positive staining on the endothelial cells and smooth muscle of human pancreas.The section was incubated with ab300065 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

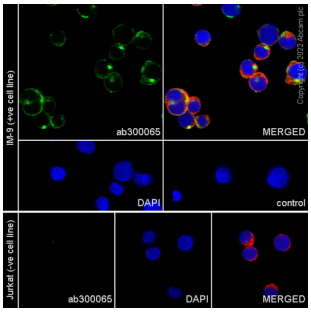



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR26473-58] (ab300065)

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

Immunohistochemical analysis of paraffin-embedded Human endometrial carcinoma tissue labelling CD39 with ab300065 at 1/2000 (0.295 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used. Positive staining on the stromal cells of human endometrial carcinoma (PMID: 25403716).The section was incubated with ab300065 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used.

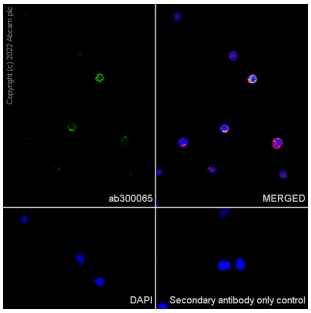
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins




## Immunocytochemistry/ Immunofluorescence - Anti-CD39 antibody [EPR26473-58] (ab300065)

CD39 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD39 antibody

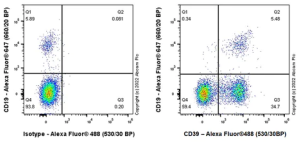
Immunofluorescent analysis of 80% Methanol-fixed, 0.1% TritonX-100 permeilized IM-9 (human multiple myeloma B Lymphoblast) cells lebelling CD39 with ab300065 at 1/50 (11.8 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2µg/mL) dilution (Green). Confocal image showing membranous and cytoplasmic staining in IM-9 cell line. Negative control: Jurkat (PMID: 24319640). ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). 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 (2µg/mL) dilution.




## Immunocytochemistry/ Immunofluorescence - Anti-CD39 antibody [EPR26473-58] (ab300065)

CD39 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD39 antibody

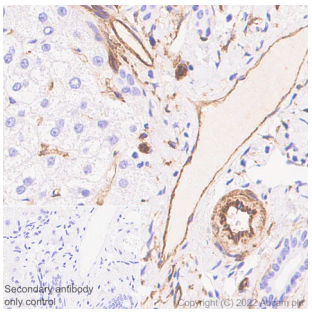
Immunofluorescent analysis of 80% Methanol-fixed, 0.1% TritonX-100 permeilized Human PBMC cells lebelling CD39 with ab300065 at 1/50 (11.8 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2µg/mL) dilution (Green). Confocal image showing membranous and cytoplasmic staining in human PBMC is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). 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 (2 µg/mL) dilution.



## Flow Cytometry - Anti-CD39 antibody [EPR26473-58] (ab300065)

CD39 Flow Cytometry staining using rabbit Anti-CD39 antibody

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling CD39 with ab300065 at 1/500 dilution (0.1µg)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells. Cells were stained with rabbit IgG or ab300065. Then stained with anti-CD19 conjugated to Alexa Fluor®647.

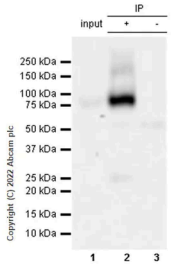



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD39 antibody [EPR26473-58] (ab300065)

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

Immunohistochemical analysis of paraffin-embedded Human liver tissue labelling CD39 with ab300065 at 1/2000 (0.295 µg/ml) followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used. Positive staining on the endothelial cells and smooth muscle of human liver.The section was incubated with ab300065 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins




## Immunoprecipitation - Anti-CD39 antibody [EPR26473-58] (ab300065)

CD39 was immunoprecipitated from 0.35 mg Human placenta tissue lysate 10µg with ab300065 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300065 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: Human placenta tissue lysate 10µg

Lane 2: ab300065 in Human placenta tissue lysate

Lane 3:Rabbit monoclonal IgG (ab172730) instead of ab300065 in Human placenta tissue lysate

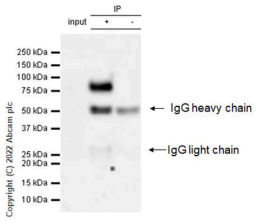
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds

All lanes:
Immunoprecipitation - Anti-CD39 antibody [EPR26473-58] (ab300065)

Predicted band size: 58 kDa

## Immunoprecipitation - Anti-CD39 antibody [EPR26473-58] (ab300065)




CD39 was immunoprecipitated from 0.35 mg Human heart tissue lysate 10µg with ab300065 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab300065 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: Human heart tissue lysate 10µ

Lane 2: ab300065 in Human heart tissue lysate

Lane 3:Rabbit monoclonal IgG (ab172730) instead of ab300065 in Human heart tissue lysate

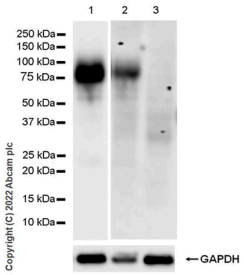
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 67 seconds

All lanes:
Immunoprecipitation - Anti-CD39 antibody [EPR26473-58] (ab300065)

Predicted band size: 58 kDa

## Western blot - Anti-CD39 antibody [EPR26473-58] (ab300065)




CD39 Western blot staining using rabbit Anti-CD39 antibody

5% NFDM/TBST was used as blocking and diluting buffer.
Exposure time:

Lane 1: 10 seconds
Lane 2 and 3: 103 seconds

Negative control: Jurkat ( PMID:9077545).

All lanes:
Western blot - Anti-CD39 antibody [EPR26473-58] (ab300065) at 1/1000 dilution

Lane 1:
IM-9 (Human multiple myeloma B Lymphoblast) whole cell lysate at 20 µg

Lane 2:
THP-1 (Human monocytic leukemia monocyte) whole cell lysate at 20 µg

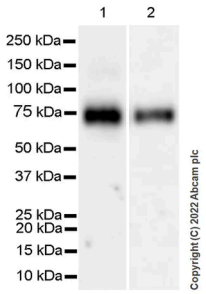
Lane 3:
Jurkat ( Human T cell leukemia T lymphocyte) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 58 kDa

Observed band size: 78 kDa




# Western blot - Anti-CD39 antibody [EPR26473-58] (ab300065)

CD39 Western blot staining using rabbit Anti-CD39 antibody

5% NFDM/TBST was used as blocking and diluting buffer.
Exposure time:

Lane 1：59 seconds
Lane 2：180 seconds

All lanes:
Western blot - Anti-CD39 antibody [EPR26473-58] (ab300065) at 1/1000 dilution

Lane 1:
Human placenta tissue lysate at 20 µg

Lane 2:
Human heart tissue lysate at 20 µg

Secondary

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

Predicted band size: 58 kDa

Observed band size: 78 kDa

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