abcam

ab324360

# Anti-CD72 antibody [EPR29739-578] - BSA and Azide free

Recombinant | RabMAb | Advanced Validation

## 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** | EPR29739-578 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 1.018 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |

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

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

## mIHC

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

## WB

### Not recommended

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

# Target data

See full target information CD72

| | |
|---|---|
| **Function** | Co-receptor of B cell receptor (BCR) that plays both positive and negative roles on B-cell functions. Recognizes the Sm/ribonucleoprotein (RNP) self-antigen ligand, and coligation of CD72 and BCR inhibits BCR signaling. Mechanistically, ligand binding leads to the recruitment of PTPN6/SHP-1 to the BCR complex which is inhibitory to BCR signaling. Also acts as a ligand for CD5 and thereby plays a critical role in maintaining regulatory T and B-cell homeostasis. |

# Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |

| | |
|---|---|
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |

## Notes

ab324360 is the carrier-free version of ab324351

**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.

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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.

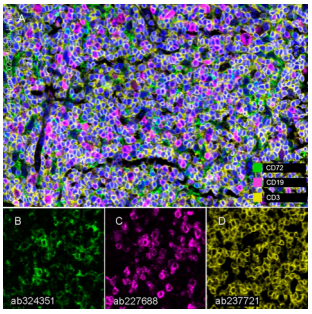
In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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## 6 product images

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### Multiplex immunohistochemistry - Anti-CD72 antibody [EPR29739-578] - BSA and Azide free (ab324360)

CD72 Multiplex immunohistochemistry staining of Human Hodgkin's lymphoma using rabbit Anti-CD72 antibody

This data was developed using ab324351, the same antibody clone in a different buffer formulation.

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human hodgkin's lymphoma tissue staining CD72 with ab324351 at a 1:500 (1.018 ug/ml) dilution, ab227688 anti-CD19 used at 1:100 (0.15 ug/ml) dilution and ab237721 anti-CD3 used at a 1:2000 (0.26 ug/ml) dilution.

Panel A: merged staining of anti-CD72 (green; Opal™520), anti-CD19 (magenta; Opal™570) and anti-CD3 (yellow; Opal™690) on human Hodgkin's lymphoma.
Panel B: anti-CD72 staining immune cells in human Hodgkin's lymphoma.
Panel C: ant-CD19 staining B lymphocytes in human Hodgkin's lymphoma.
Panel D: ant-CD3 staining T lymphocytes in human Hodgkin's lymphoma.
Nuclear DNA was labeled with DAPI (shown in blue).

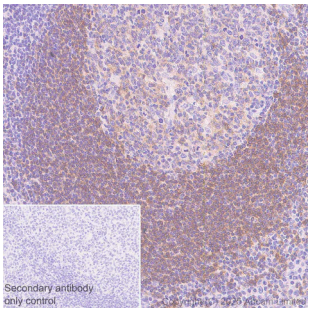
The section was incubated in three rounds of staining: in the order of ab324351, ab227688 and ab237721 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Nuclear counter stain with DAPI.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

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## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD72 antibody [EPR29739-578] - BSA and Azide free (ab324360)

CD72 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human tonsil using rabbit Anti-CD72 antibody

This data was developed using ab324351, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling CD72 with ab324351 at 1/500 (1.018 ug/ml) dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

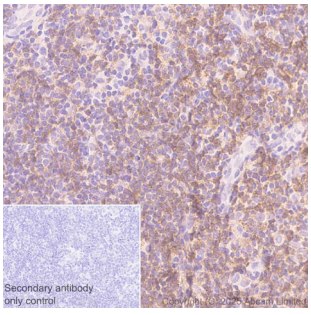
Positive staining on human tonsil.
The primary antibody was incubated for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD72 antibody [EPR29739-578] - BSA and Azide free (ab324360)

CD72 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human B-Cell follicular lymphoma using rabbit Anti-CD72 antibody

This data was developed using ab324351, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human B-Cell follicular lymphoma tissue labeling CD72 with ab324351 at 1/500 (1.018 ug/ml) dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

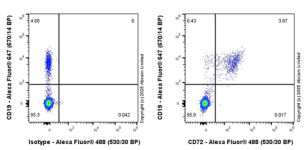
Positive staining on human B-Cell follicular lymphoma.
The primary antibody was incubated for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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## Flow Cytometry - Anti-CD72 antibody [EPR29739-578] - BSA and Azide free (ab324360)

CD72 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-CD72 antibody

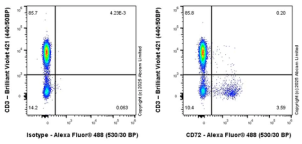
This data was developed using ab324351, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CD72 with ab324351 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® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells are co-stained with CD19 conjugated to Alexa Fluor® 647.

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## Flow Cytometry - Anti-CD72 antibody [EPR29739-578] - BSA and Azide free (ab324360)

CD72 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-CD72 antibody

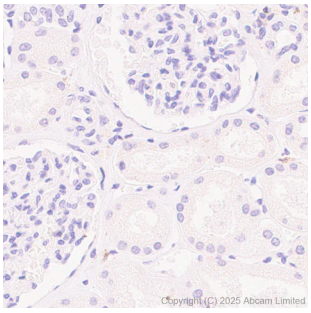
This data was developed using ab324351, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CD72 with ab324351 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® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells are co-stained with CD3 conjugated to Brilliant Violet 421.

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## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD72 antibody [EPR29739-578] - BSA and Azide free (ab324360)

CD72 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human kidney using rabbit Anti-CD72 antibody

This data was developed using ab324351, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling CD72 with ab324351 at 1/500 (1.018 ug/ml) dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Negative control: Weak staining on human kidney.
The primary antibody was incubated 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 Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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