

## Product datasheet

# Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free ab224676

Recombinant RabMAb

5 Images

### Overview

<b>Product name</b>	Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR20539] to CD272/BTLA - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IP, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment within Mouse CD272/BTLA aa 1-200. The exact sequence is proprietary. Database link: <a href="#">Q7TSA3</a>
<b>Positive control</b>	ICC/IF: A20 cells.
<b>General notes</b>	ab224676 is the carrier-free version of <a href="#">ab212089</a> This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

Ab224676 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

*Maxpar® is a trademark of Fluidigm Canada Inc.*

This product was previously labelled as CD272

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 production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

---

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR20539
<b>Isotype</b>	IgG

## Applications

---

Our [Abpromise guarantee](#) covers the use of **ab224676** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

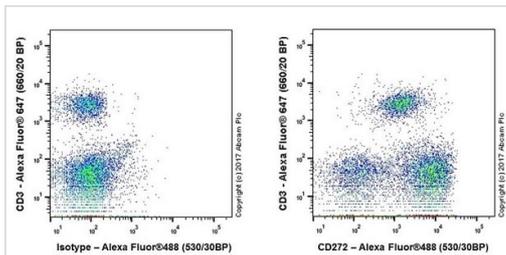
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 55-70 kDa (predicted molecular weight: 33 kDa).
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

---

## Target

<b>Function</b>	Lymphocyte inhibitory receptor which inhibits lymphocytes during immune response.
<b>Sequence similarities</b>	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
<b>Post-translational modifications</b>	Phosphorylated on Tyr residues by TNFRSF14 and by antigen receptors cross-linking, both inducing association with PTPN6 and PTPN11. N-glycosylated.
<b>Cellular localization</b>	Membrane.

## Images

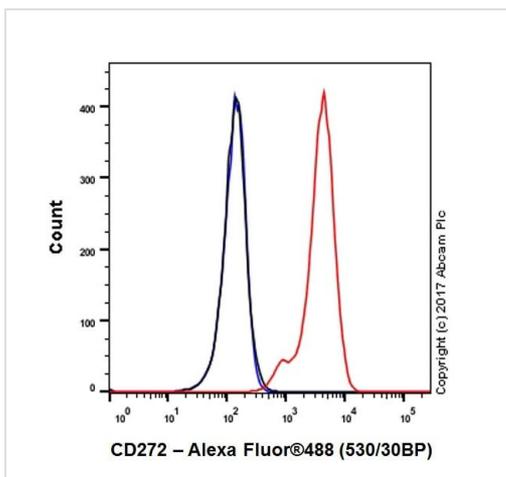


Flow Cytometry - Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free (ab224676)

Flow cytometric analysis of mouse splenocytes labeling CD272/BTLA with [ab212089](#) at 1/500 dilution (right) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) (left). Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) at 1/2000 dilution was used as the secondary antibody.

Mouse splenocytes stained with CD3 and [ab212089](#). Total viable cells were gated for the FC image. T cells (CD3+, upper population) show a moderate positive signal while B cells (lower right population in right panel) show stronger positive signal. The expression pattern is also reported in literature (PMID: 19949073).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab212089](#)).

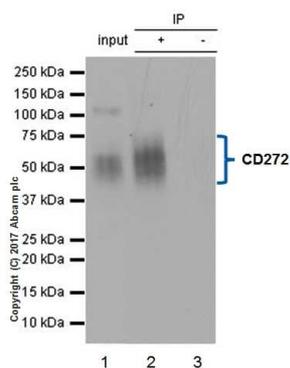


Flow Cytometry - Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free (ab224676)

Flow cytometric analysis of A20 (mouse reticulum sarcoma cell line) cell line labeling CD272/BTLA with [ab212089](#) at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) at 1/2000 dilution was used as the secondary antibody.

Total viable cells were gated for the FC image.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab212089](#)).



Immunoprecipitation - Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free (ab224676)

CD272/BTLA was immunoprecipitated from 0.35 mg mouse spleen lysate with [ab212089](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab212089](#) at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1,000 dilution.

Lane 1: Mouse spleen lysate 10 µg (Input).

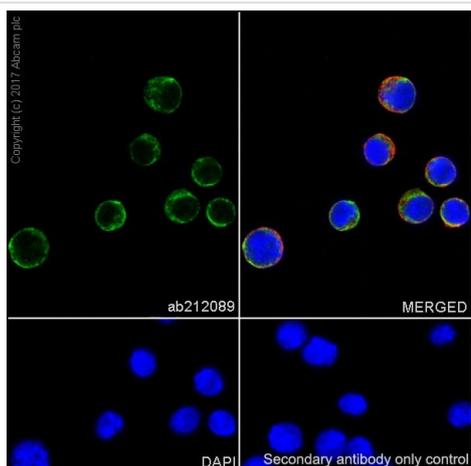
Lane 2: [ab212089](#) IP in mouse spleen lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab212089](#) in mouse spleen lysate.

Blocking and dilution buffer and concentration: 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 ([ab212089](#)).



Immunocytochemistry/ Immunofluorescence - Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free (ab224676)

Immunofluorescent analysis of 100% methanol fixed A20 (mouse reticulum sarcoma cell line) cells labeling CD272/BTLA with [ab212089](#) at 1/100 dilution, followed by by Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and membranous staining on A20 cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor<sup>®</sup> 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 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 ([ab212089](#)).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CD272/BTLA antibody [EPR20539] - BSA and Azide free (ab224676)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors