

## Product datasheet

# Anti-CRTAM antibody [EPR23786-12] ab272723

Recombinant RabMAb

[1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-CRTAM antibody [EPR23786-12]
<b>Description</b>	Rabbit monoclonal [EPR23786-12] to CRTAM
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt <b>Unsuitable for:</b> ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Mouse thymus tissue lysate; Rat cerebellum tissue lysate; Human PBMC (untreated and treated with 1ng/mL phorbol-12-myristate-13-acetate and 0.2 μM ionomycin for 5 hours) whole cell lysates. Flow Cyt: Human PBMCs.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR23786-12

Isotype

IgG

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab272723 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
WB		1/1000. Detects a band of approximately 70 kDa (predicted molecular weight: 45 kDa).
Flow Cyt		1/500.

### Application notes

Is unsuitable for ICC/IF, IHC-P or IP.

## Target

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### Function

Interaction with CADM1 promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8+ cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM3 in vivo.

### Tissue specificity

In the immune system, expression is restricted to activated class-I MHC-restricted cells, including NKT and CD8 cells. Strongly expressed in spleen, thymus, small intestine, peripheral blood leukocyte, and in Purkinje neurons in cerebellum. Expressed at much lower levels in testis, ovary, colon, lung and lymphoid tissues.

### Sequence similarities

Belongs to the nectin family.  
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

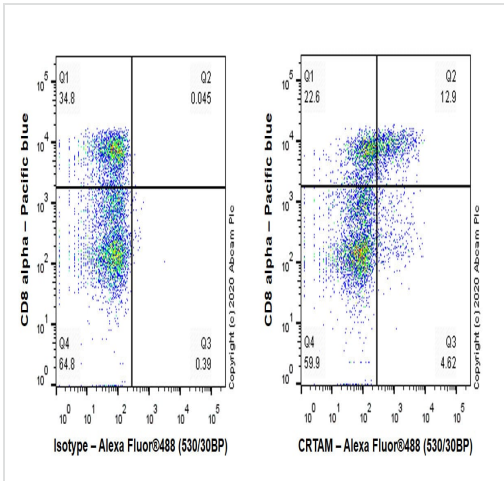
### Cellular localization

Membrane.

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## Images

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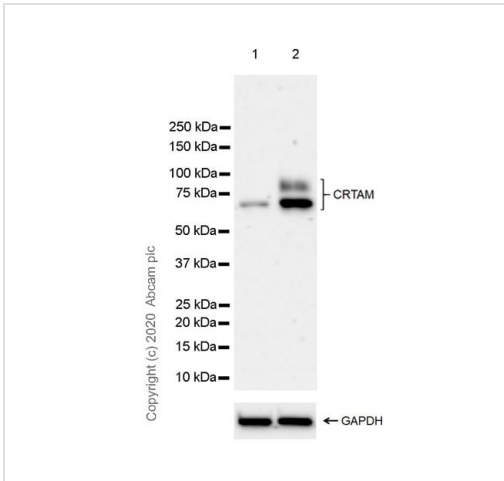
Flow Cytometry - Anti-CRTAM antibody [EPR23786-12] (ab272723)

Flow cytometric analysis of Human peripheral blood mononuclear cells (PBMC) (treated with 1 ng/mL PMA and 0.2  $\mu$ M Ionomycin for 5h) labelling CRTAM with ab272723 at 1/500 dilution (0.1ug) (Right) compared with a Rabbit monoclonal IgG ([ab172730](#)) isotype control (Left).

Goat anti rabbit IgG (Alexa Fluor<sup>®</sup> 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG or ab272723. Then stained with anti-CD8 alpha conjugated to Pacific blue.

Gated on viable cells.



Western blot - Anti-CRTAM antibody [EPR23786-12] (ab272723)

**All lanes :** Anti-CRTAM antibody [EPR23786-12] (ab272723) at 1/1000 dilution

**Lane 1 :** Untreated human peripheral blood mononuclear cell (PBMC) whole cell lysate with NFDN/TBST

**Lane 2 :** Human PBMC treated with 1ng/mL phorbol-12-myristate-13-acetate (PMA) ([ab120297](#)) and 0.2  $\mu$ M Ionomycin ([ab120116](#)) for 5 hours, whole cell lysate with NFDN/TBST

Lysates/proteins at 20  $\mu$ g per lane.

Blocking peptides at 5 % per lane.

### Secondary

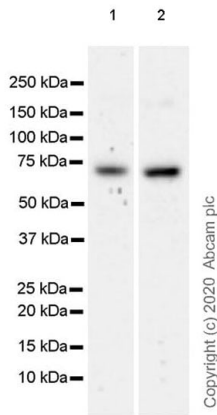
**All lanes :** VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution (VeriBlot for IP secondary antibody)

**Predicted band size:** 45 kDa

**Observed band size:** 70,85 kDa

**Exposure time:** 3 minutes

The molecular weight observed is consistent with what has been described in the literature (PMID:10811014, 23637756, 16300832)



Western blot - Anti-CRTAM antibody [EPR23786-12] (ab272723)

**All lanes** : Anti-CRTAM antibody [EPR23786-12] (ab272723) at 1/1000 dilution

**Lane 1** : Mouse thymus tissue lysate with NFDN/TBST

**Lane 2** : Rat cerebellum tissue lysate with NFDN/TBST

Lysates/proteins at 40 µg per lane.

Blocking peptides at 5 % per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/50000 dilution





**Predicted band size:** 45 kDa

**Observed band size:** 70 kDa

**Exposure time:** 3 minutes

The molecular weight observed is consistent with what has been described in the literature (PMID:10811014, 23637756, 16300832).

### Why choose a recombinant antibody?

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

Anti-CRTAM antibody [EPR23786-12] (ab272723)

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

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- Valid for 12 months from date of delivery
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- Extensive multi-media technical resources to help you
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