

## Product datasheet

# Anti-CD39 antibody [EPR3678(2)] ab108248

Recombinant RabMAb

[17 References](#) [5 Images](#)

### Overview

<b>Product name</b>	Anti-CD39 antibody [EPR3678(2)]
<b>Description</b>	Rabbit monoclonal [EPR3678(2)] to CD39
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human placenta, rat hippocampus, rat pancreas, mouse placenta and mouse urinary bladder tissue lysates; IM-9 and HUVEC cell lysates.
<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 -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3678(2)
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab108248 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 - 1/10000. Predicted molecular weight: 58 kDa.

### Application notes

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

## Target

### Function

In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation. Hydrolyzes ATP and ADP equally well.

### Tissue specificity

Expressed primarily on activated lymphoid cells. Also expressed in endothelial tissues. The vascular isoform and the placental isoform II are present in both placenta and umbilical vein, whereas placental isoform I is present in placenta only.

### Sequence similarities

Belongs to the GDA1/CD39 NTPase family.

### Post-translational modifications

The N-terminus is blocked.

Palmitoylated in the N-terminal part.

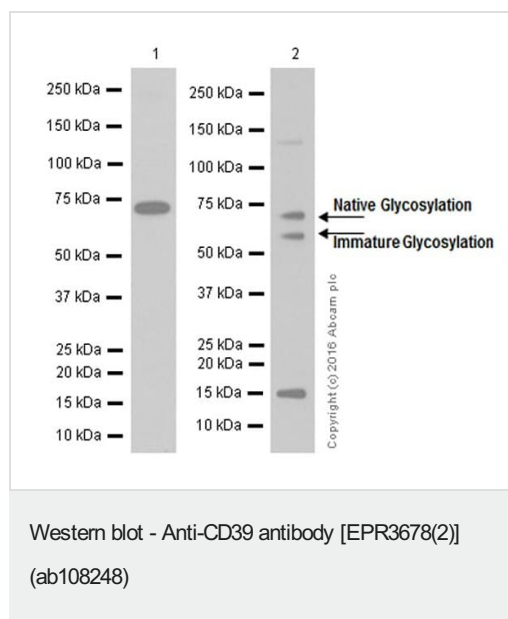
### Cellular localization

Membrane.

### Form

There are 3 isoforms produced by alternative splicing.

## Images



**All lanes** : Anti-CD39 antibody [EPR3678(2)] (ab108248) at 1/1000 dilution (purified)

**Lane 1** : Rat hippocampus tissue lysate

**Lane 2** : Rat pancreas tissue lysate

Lysates/proteins at 20 µg per lane.

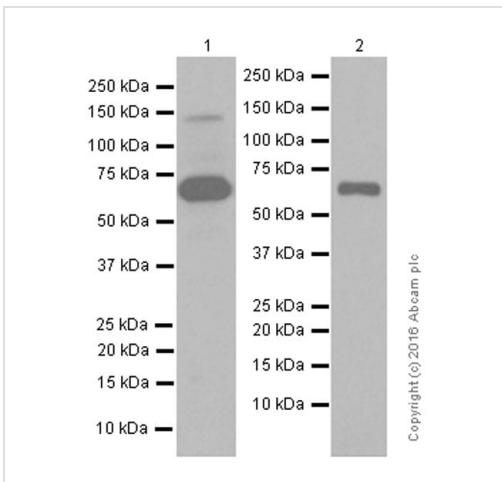
### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size**: 58 kDa

**Observed band size**: 70,74 kDa

Blocking and diluting buffer and concentration 5% NFDM/TBST.



Western blot - Anti-CD39 antibody [EPR3678(2)] (ab108248)

**All lanes :** Anti-CD39 antibody [EPR3678(2)] (ab108248) at 1/1000 dilution (purified)

**Lane 1 :** Mouse placenta tissue lysate

**Lane 2 :** Mouse urinary bladder tissue lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

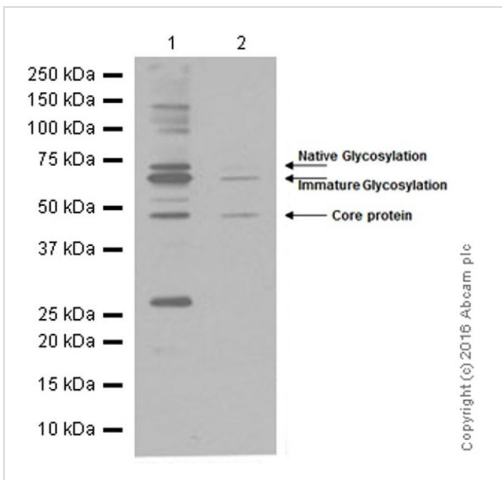
**Predicted band size:** 58 kDa

**Observed band size:** 70 kDa

**Exposure time:** 15 seconds

Blocking and diluting buffer and concentration 5% NFDm/TBST.

The PKC beta 2 recombinant protein is GST-tagged, so the molecular weight is higher.



Western blot - Anti-CD39 antibody [EPR3678(2)] (ab108248)

**Lane 1 :** Anti-CD39 antibody [EPR3678(2)] (ab108248) at 1/100 dilution (purified)

**Lane 2 :** Anti-CD39 antibody [EPR3678(2)] (ab108248) at 1/1000 dilution (purified)

**All lanes :** HUVEC whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

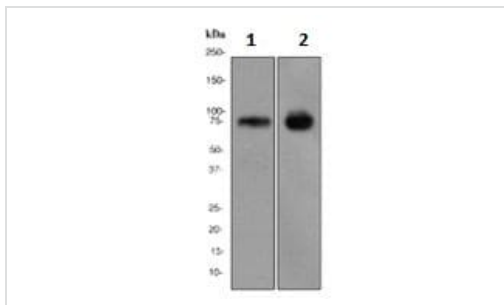
**Predicted band size:** 58 kDa

**Observed band size:** 70,74 kDa

**Exposure time:** 3 minutes

Blocking and diluting buffer and concentration 5% NFDN/TBST.

Ref: PMID: 18693757



Western blot - Anti-CD39 antibody [EPR3678(2)]  
(ab108248)

**All lanes** : Anti-CD39 antibody [EPR3678(2)] (ab108248) at  
1/1000 dilution (unpurified)

**Lane 1** : Human placenta lysate

**Lane 2** : IM-9 cell lysate

**Predicted band size:** 58 kDa

### 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-CD39 antibody [EPR3678(2)] (ab108248)

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

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