

## Product datasheet

# Anti-Rab9 antibody [EPR13272] - Late Endosome Marker ab179815

**KO VALIDATED** Recombinant RabMAB

★★★★☆ 4 Abreviews 10 References 8 Images

### Overview

<b>Product name</b>	Anti-Rab9 antibody [EPR13272] - Late Endosome Marker
<b>Description</b>	Rabbit monoclonal [EPR13272] to Rab9 - Late Endosome Marker
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Rab9 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P51151</a>
<b>Positive control</b>	WB: MDA-MB-231, MCF7, K562, HeLa, 293T and HepG2 whole cell lysate ( <a href="#">ab7900</a> ). ICC/IF: HepG2 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p>

### 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.

### Storage buffer

pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA

### Purity

Protein A purified

### Clonality

Monoclonal

### Clone number

EPR13272

### Isotype

IgG

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab179815 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	★★★★☆ (3)	1/1000 - 1/10000. Predicted molecular weight: 23 kDa.
ICC/IF	★★★☆☆ (1)	1/250. <b>For unpurified, use 1/50 - 1/100.</b>

### Application notes

Is unsuitable for IHC-P.

## Target

### Function

Involved in the transport of proteins between the endosomes and the trans Golgi network.

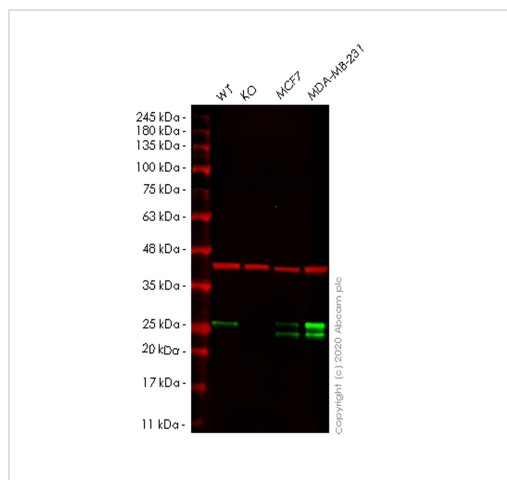
### Sequence similarities

Belongs to the small GTPase superfamily. Rab family.

### Cellular localization

Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus membrane.

## Images



Western blot - Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815)

**All lanes** : Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815) at 1/1000 dilution

**Lane 1** : Wild-type HeLa cell lysate

**Lane 2** : RAB9A knockout HeLa cell lysate

**Lane 3** : MCF7 cell lysate

**Lane 4** : MDA-MB-231 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

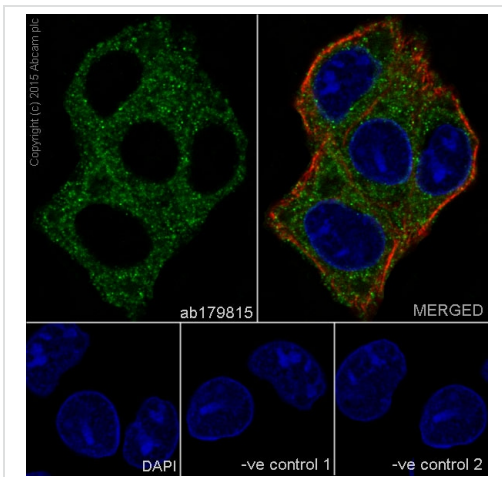
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 23 kDa

**Observed band size:** 25 kDa

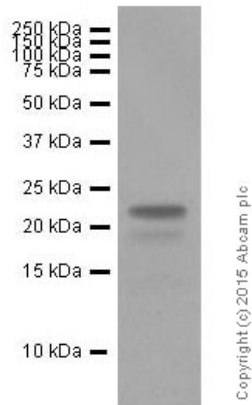
**Lanes 1-4:** Merged signal (red and green). Green - ab179815 observed at 25 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab179815 Anti-Rab9 antibody [EPR13272] was shown to specifically react with Rab9 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265693](#) (knockout cell lysate [ab257625](#)) was used. Wild-type and Rab9 knockout samples were subjected to SDS-PAGE. ab179815 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815)

Immunofluorescence staining of HepG2 cells with purified ab179815 at a working dilution of 1/250, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti-rabbit ([ab150077](#)), used at a dilution of 1/1000. [ab7291](#), a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with [ab150120](#) (Alexa Fluor® 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 100% methanol and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab179815 was used at a dilution of 1/500 followed by an Alexa Fluor® 594 goat anti-mouse antibody ([ab150120](#)) at a dilution of 1/500. For negative control 2, [ab7291](#) (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor® 488 goat anti-rabbit antibody ([ab150077](#)) at a dilution of 1/400.



Western blot - Anti-Rab9 antibody [EPR13272] -  
Late Endosome Marker (ab179815)

Anti-Rab9 antibody [EPR13272] - Late Endosome Marker  
(ab179815) at 1/2000 dilution (purified) + rat kidney at 10  $\mu$ g

**Secondary**

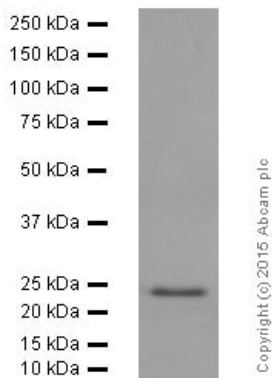
HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-Rab9 antibody [EPR13272] -  
Late Endosome Marker (ab179815)

Anti-Rab9 antibody [EPR13272] - Late Endosome Marker  
(ab179815) at 1/2000 dilution (purified) + mouse spleen at 20  $\mu$ g

**Secondary**

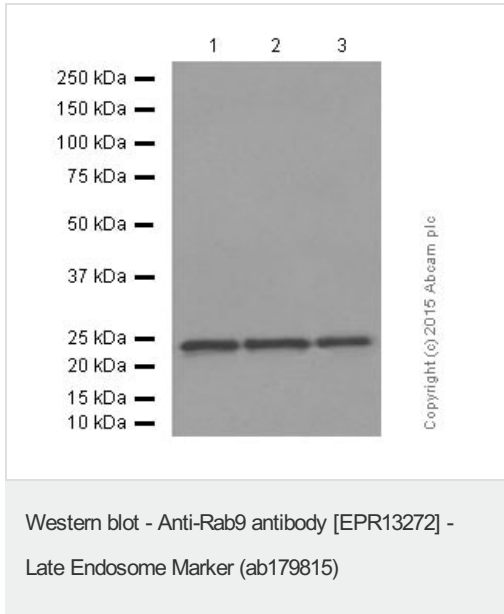
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



**All lanes :** Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815) at 1/2000 dilution (purified)

**Lane 1 :** K562 cell lysate

**Lane 2 :** HeLa cell lysate

**Lane 3 :** HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

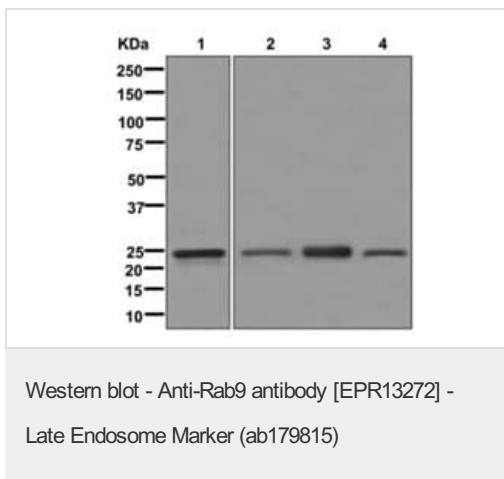
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



**All lanes :** Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815) at 1/1000 dilution (unpurified)

**Lane 1 :** K562 cell lysate

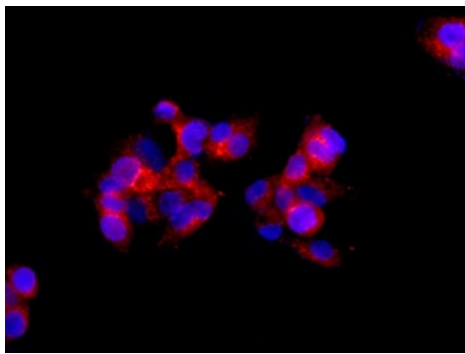
**Lane 2 :** HeLa cell lysate

**Lane 3 :** 293T cell lysate

**Lane 4 :** HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 23 kDa



Immunofluorescent staining of HepG2 cells labeling Rab9 with unpurified ab179815 at 1/50 dilution (red). DAPI nuclear staining (blue).

Immunocytochemistry/ Immunofluorescence - Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815)

### Why choose a recombinant antibody?



Anti-Rab9 antibody [EPR13272] - Late Endosome Marker (ab179815)

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