

## Product datasheet

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

KO VALIDATED Recombinant RabMAb

★★★★☆ 4 Abreviews 11 References 8 Images

### Overview

Product name	Anti-Rab9 antibody [EPR13272] - Late Endosome Marker
Description	Rabbit monoclonal [EPR13272] to Rab9 - Late Endosome Marker
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, ICC/IF <b>Unsuitable for:</b> IHC-P
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Rab9 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P51151</a>
Positive control	WB: MDA-MB-231, MCF7, K562, HeLa, 293T and HepG2 whole cell lysate ( <a href="#">ab7900</a> ). ICC/IF: HepG2 cells.
General notes	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

Form	Liquid
Storage instructions	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

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13272
<b>Isotype</b>	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
<b>WB</b>	★★★★★ (3)	1/1000 - 1/10000. Predicted molecular weight: 23 kDa.
<b>ICC/IF</b>	★★★★★ (1)	1/250. <b>For unpurified, use 1/50 - 1/100.</b>

**Application notes** Is unsuitable for IHC-P.

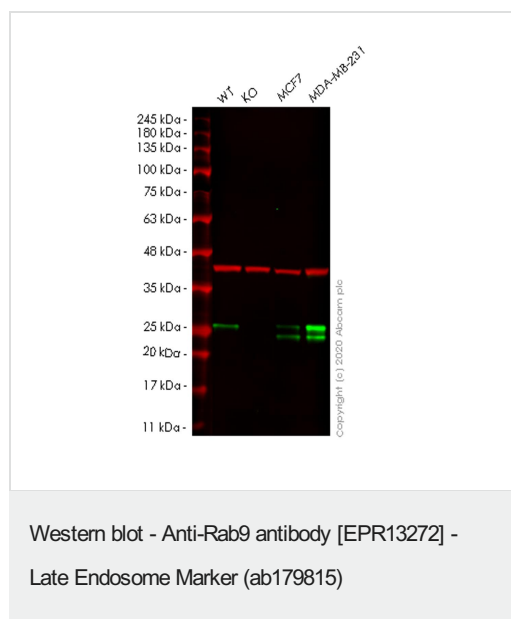
## Target

**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



**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.

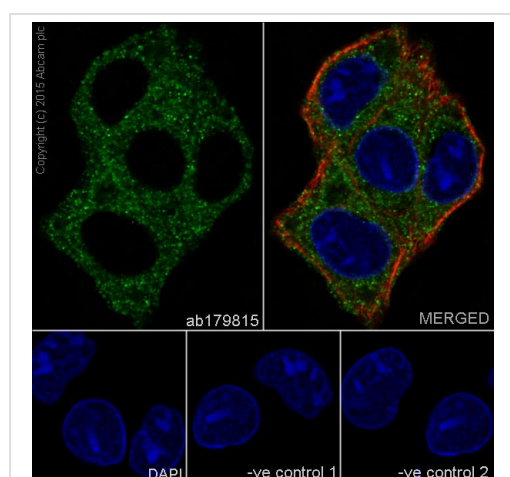
### Secondary

**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

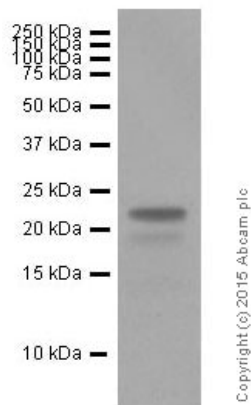
**Lanes 1-4:** Merged signal (red and green). Green - ab179815 observed at 25 kDa. Red - loading control **ab8245** observed at 36 kDa.

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 µg

#### Secondary

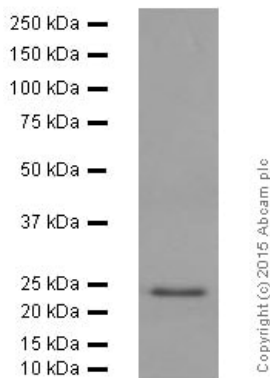
HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**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 µg

#### Secondary

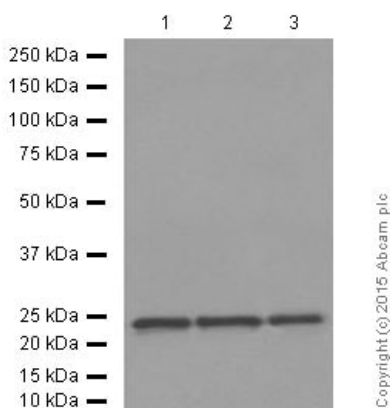
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



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

**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

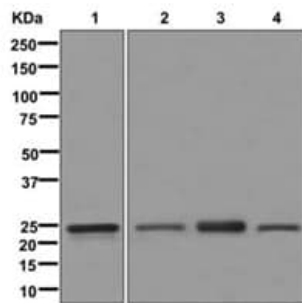
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



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

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

**Lane 1 :** K562 cell lysate

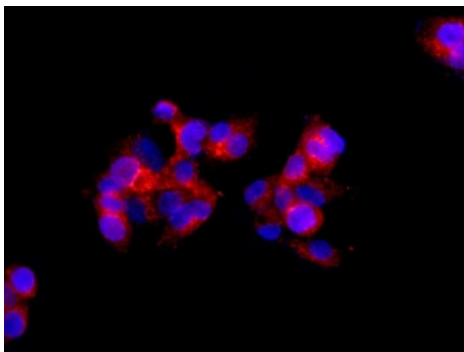
**Lane 2 :** HeLa cell lysate

**Lane 3 :** 293T cell lysate

**Lane 4 :** HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 23 kDa



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

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

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

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

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