

## Product datasheet

# Anti-Rab5 antibody [EPR5438] - BSA and Azide free ab234908

KO VALIDATED

Recombinant

RabMAb

8 Images

### Overview

Product name	Anti-Rab5 antibody [EPR5438] - BSA and Azide free
Description	Rabbit monoclonal [EPR5438] to Rab5 - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab234908 is the carrier-free version of <a href="#">ab109534</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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>

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5438
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab234908 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

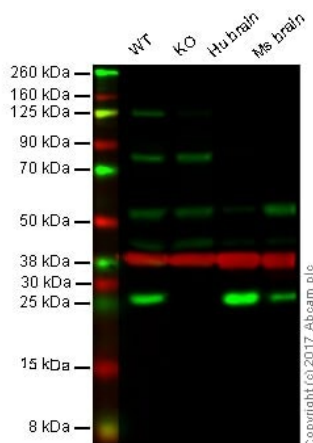
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 24 kDa.

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IP.

## Target

Function	Required for the fusion of plasma membranes and early endosomes.
Sequence similarities	Belongs to the small GTPase superfamily. Rab family.
Cellular localization	Cell membrane. Early endosome membrane. Melanosome. Enriched in stage I melanosomes.

## Images



Western blot - Anti-Rab5 antibody [EPR5438] - BSA and Azide free (ab234908)

**Lane 1:** Wild type HAP1 whole cell lysate (20 µg)

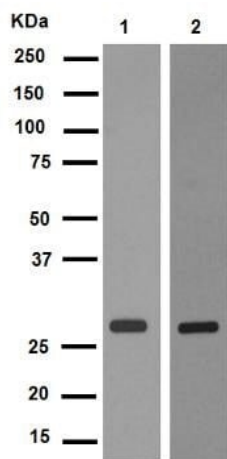
**Lane 2:** Rab5 knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** Hu brain whole cell lysate (20 µg)

**Lane 4:** Ms brain whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab109534](#) observed at 25 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109534](#)).



Western blot - Anti-Rab5 antibody [EPR5438] - BSA and Azide free (ab234908)

**All lanes :** Anti-Rab5 antibody [EPR5438] - Early Endosome Marker ([ab109534](#)) at 1/5000 dilution (purified)

**Lane 1 :** Mouse brain

**Lane 2 :** Rat brain

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP goat anti-rabbit (H+L) at 1000 µg

**Predicted band size:** 24 kDa

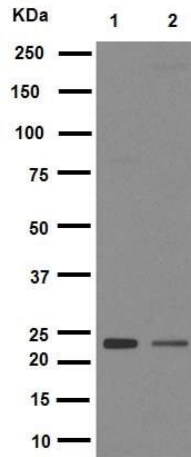
**Observed band size:** 24 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide ([ab109534](#)).



Western blot - Anti-Rab5 antibody [EPR5438] - BSA and Azide free ([ab234908](#))

**All lanes :** Anti-Rab5 antibody [EPR5438] - Early Endosome Marker ([ab109534](#)) at 1/5000 dilution

**Lane 1 :** MCF7 cell lysate

**Lane 2 :** HEK293 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

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

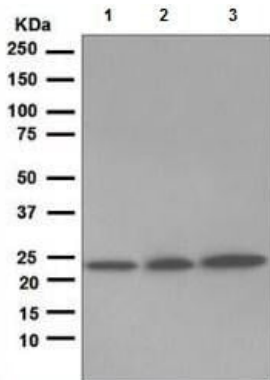
**Predicted band size:** 24 kDa

**Observed band size:** 24 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109534](#)).



Western blot - Anti-Rab5 antibody [EPR5438] - BSA and Azide free ([ab234908](#))

**All lanes :** Anti-Rab5 antibody [EPR5438] - Early Endosome Marker ([ab109534](#)) at 1/1000 dilution (unpurified)

**Lane 1 :** 293T cell lysate

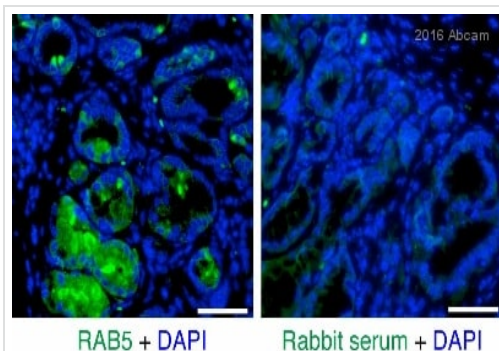
**Lane 2 :** HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 24 kDa

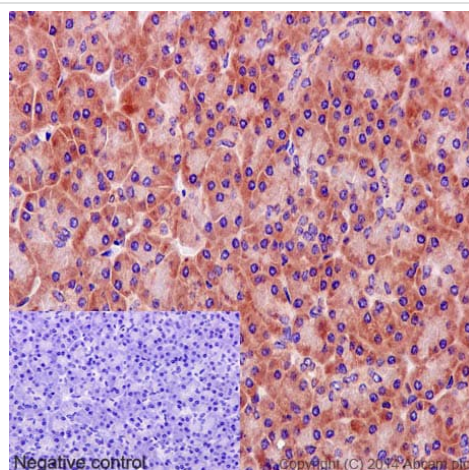
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109534](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab5 antibody  
[EPR5438] - BSA and Azide free (ab234908)  
This image is courtesy of an anonymous Abreview.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Pancreas tissue sections (with ADM and PanIN lesions) from KC mice labeling Rab5 with **ab109534** at 1/200 dilution. Tissue was fixed with paraformaldehyde and permeabilized with TritonX100 0.1% for 10 min at room temperature. Heat-mediated antigen retrieval was performed using TRIS-EDTA pH9 buffer. Tissue sections were blocked with 10% goat serum for 1 hour at 20°C. A polyclonal goat anti-rabbit Alexa Fluor 488 secondary antibody was used at 1/500 dilution.

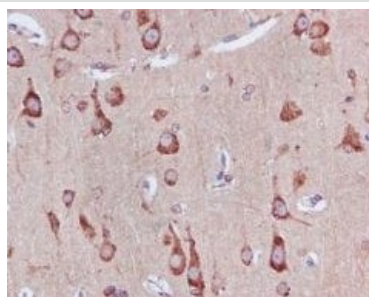
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109534**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab5 antibody  
[EPR5438] - BSA and Azide free (ab234908)

Immunohistochemical staining of paraffin embedded human pancreas with purified **ab109534** at a working dilution of 1 in 1000. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109534**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab5 antibody  
[EPR5438] - BSA and Azide free (ab234908)

Immunohistochemical staining of Rab5 in paraffin embedded human brain tissue with unpurified **ab109534**, at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109534**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

### 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-Rab5 antibody [EPR5438] - BSA and Azide free  
(ab234908)

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

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