Product datasheet

Anti-Rab5 antibody - Early Endosome Marker ab18211

Overview

Product name: Anti-Rab5 antibody - Early Endosome Marker
Description: Rabbit polyclonal to Rab5 - Early Endosome Marker
Host species: Rabbit
Specificity: The immunogen used for this product shares 43% homology with Rab5C. Cross-reactivity with this protein has not been confirmed experimentally.

Replenishment batches of our polyclonal antibody, ab18211 are tested in WB. Previous batches were additionally validated in ICC. This application is still expected to work and is covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, ab218624.

Tested applications: Suitable for: WB, ICC
Species reactivity: Reacts with: Mouse, Rat, Human
Predicted to work with: Dog, Chinese hamster

Immunogen: Synthetic peptide corresponding to Human Rab5 aa 150 to the C-terminus (internal sequence) conjugated to keyhole limpet haemocyanin.
(Peptide available as ab18625)

Positive control: ICC: HeLa cells

General notes: The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

The Abpromise guarantee
Our Abpromise guarantee covers the use of ab18211 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★★★☆☆☆ (15)</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).</td>
</tr>
<tr>
<td>ICC</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
</tbody>
</table>

Target

Function
Required for the fusion of plasma membranes and early endosomes.

Sequence similarities
Belongs to the small GTPase superfamily. Rab family.

Cellular localization

Images

ab18211 staining Rab5 in HeLa cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab18211 at 1µg/ml and ab7291, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with ab150081, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and ab150120, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, PerkinElmer) and a maximum intensity projection of confocal...
sections is shown.

Anti-Rab5 antibody - Early Endosome Marker (ab18211) at 1 µg/ml
+ Jurkat cell lysate at 20 µg

Secondary
Alexa Fluor Goat polyclonal to Rabbit IgG (700) at 1/5000 dilution

Predicted band size: 24 kDa
Observed band size: 24 kDa
Additional bands at: 40 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

All lanes: Anti-Rab5 antibody - Early Endosome Marker (ab18211) at 1 µg/ml

Lane 1: NIH/3T3 whole cell lysate (ab7179)
Lane 2: MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate (ab46770)
Lane 3: Brain (Mouse) Tissue Lysate (ab27253)
Lane 4: Testis (Mouse) Tissue Lysate - normal tissue
Lane 5: Spinal Cord (Mouse) Tissue Lysate
Lane 6: PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate
Lane 7: Brain (Rat) Tissue Lysate - normal tissue
Lane 8: Heart (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 24 kDa
Observed band size: 25 kDa
Western blot - Anti-Rab5 antibody - Early Endosome Marker (ab18211) at 1 µg/ml
+ Recombinant Human Rab5A protein (ab62956) at 0.001 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa

Exposure time: 150 seconds

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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