Overview

Product name: Anti-RAB8A antibody [EPR14873]
Description: Rabbit monoclonal [EPR14873] to RAB8A
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC/IF, Flow Cyt
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human RAB8A aa 150 to the C-terminus. The exact sequence is proprietary.
Database link: P61006
Positive control: HepG2, HeLa, 293T, HCT-116, C6, Raw264.7, PC-12 and NIH3T3 lysates; Human stomach and Human adenocarcinoma of colon tissues; HepG2 and HeLa cells.
General notes: Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.
This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR14873
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab188574 in the following tested applications.
Function
May be involved in vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B and RAB11A participates in epithelial cell polarization.

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

Cellular localization

Images

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: RAB8A knockout HAP1 cell lysate (20 µg)
Lane 3: HCT116 cell lysate (20 µg)
Lane 4: NIH/3T3 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab188574 observed at 24 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab188574 was shown to specifically react with RAB8A when RAB8A knockout samples were used. Wild-type and RAB8A knockout samples were subjected to SDS-PAGE. ab188574 and ab8245 (loading control to GAPDH) were diluted 1/1000 and 1/2000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD)

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>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/10000</td>
<td>Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/250 - 1/500</td>
<td>Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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<tr>
<td>ICC/IF</td>
<td>1/500</td>
<td></td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/260</td>
<td>ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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</table>

Target

Function
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preadsorbed (ab216776) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.

Immunohistochemical analysis of paraffin-embedded Human adenocarcinoma of colon tissue labelling RAB8A with ab188574 at 1/500. A prediluted HRP Polymer for Rabbit IgG was used as the secondary antibody. Counter stained with Hematoxylin.

All lanes: Anti-RAB8A antibody [EPR14873] (ab188574) at 1/1000 dilution

Lane 1: C6 lysate
Lane 2: RAW264.7 lysate
Lane 3: PC-12 lysate
Lane 4: NIH3T3 lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 24 kDa
**Observed band size:** 24 kDa
Western blot - Anti-RAB8A antibody [EPR14873] (ab188574)

Anti-RAB8A antibody [EPR14873] (ab188574) at 1/1000 dilution + HCT-116 lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated

Predicted band size: 24 kDa
Observed band size: 24 kDa

All lanes : Anti-RAB8A antibody [EPR14873] (ab188574) at 1/10000 dilution

Lane 1 : HepG2 lysate
Lane 2 : HeLa lysate
Lane 3 : 293T lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 24 kDa
Observed band size: 24 kDa
Flow Cytometrical analysis of HeLa cells labeling RAB8A with ab188574 at 1/260 (pink) compared to a isotype control (green). FITC-conjugated goat-anti-rabbit secondary antibody at 1/150 were used for the analysis.

Immunofluorescent analysis of 4% paraformaldehyde-fixed HepG2 cells labelling RAB8A with ab188574 at 1/500 followed by Goat anti rabbit IgG (Alexa Fluor®488) and DAPI staining.

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling RAB8A with ab188574 at 1/500. A prediluted HRP Polymer for Rabbit IgG was used as the secondary antibody. Counter stained with Hematoxylin.
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