

Anti-Rab4 antibody [EPR3042] - Early Endosome Marker ab108974

敲除验证
重组
RabMAb

4 References 7 图像

概述

产品名称	Anti-Rab4抗体[EPR3042] - Early Endosome Marker
描述	兔单克隆抗体[EPR3042] to Rab4 - Early Endosome Marker
宿主	Rabbit
经测试应用	适用于: WB, ICC/IF 不适用于: Flow Cyt or IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa, MCF7, PC12, Neuro-2a, mouse brain, rat brain and fetal brain cell lysates
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	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. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3042

同种型

lgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab108974于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/2000 - 1/10000. Detects a band of approximately 25 kDa (predicted molecular weight: 24 kDa).
ICC/IF		1/100 - 1/250.

应用说明

Is unsuitable for Flow Cyt or IHC-P.

靶标

功能

Protein transport. Probably involved in vesicular traffic.

序列相似性

Belongs to the small GTPase superfamily. Rab family.

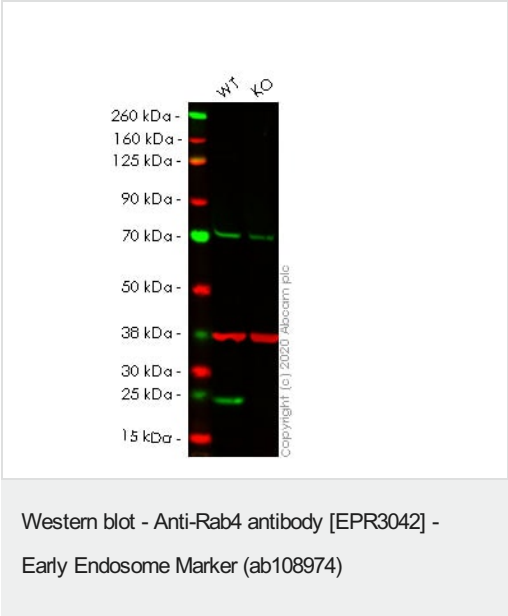
翻译后修饰

Phosphorylated by CDK1 kinase during mitosis.

细胞定位

Membrane. Cytoplasm. Generally associated with membranes. Cytoplasmic when phosphorylated by CDK1.

图片



All lanes : Anti-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : RAB4A knockout HeLa cell lysate

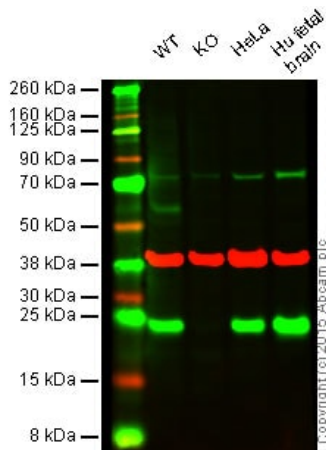
Lysates/proteins at 40 µg per lane.

Performed under reducing conditions.

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

Lanes 1- 2: Merged signal (red and green). Green - ab108974 observed at 24 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) observed at 37 kDa.

ab108974 was shown to react with Rab4 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab264781** (knockout cell lysate **ab257624**) was used. Wild-type HeLa and RAB4A knockout HeLa cell lysates were subjected to SDS-PAGE. ab108974 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 1000 Dilution and a 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.



Western blot - Anti-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974)

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

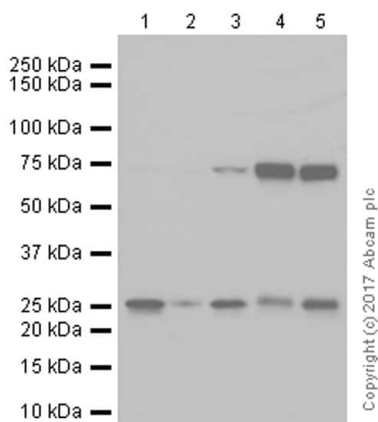
Lane 2: Rab4 knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: Human fetal brain cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab108974 observed at 24 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

Unpurified ab108974 was shown to recognize Rab4 when Rab4 knockout samples were used, along with additional cross-reactive bands. Wild-type and Rab4 knockout samples were subjected to SDS-PAGE. Unpurified ab108974 and **ab8245** (loading control to GAPDH) were both diluted 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) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974)

All lanes : Anti-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974) at 1/2000 dilution (purified)

Lane 1 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lane 3 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysates

Lane 4 : Mouse brain lysates

Lane 5 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

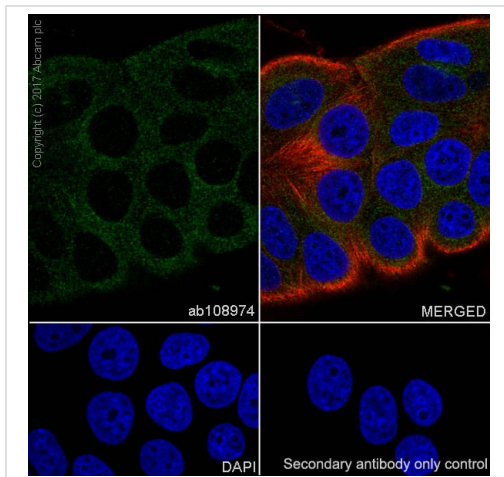
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 24 kDa

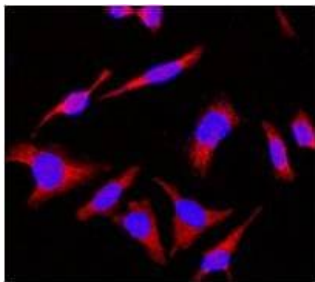
Observed band size: 25 kDa

Blocking and diluting buffer: 5% NFDM/TBST



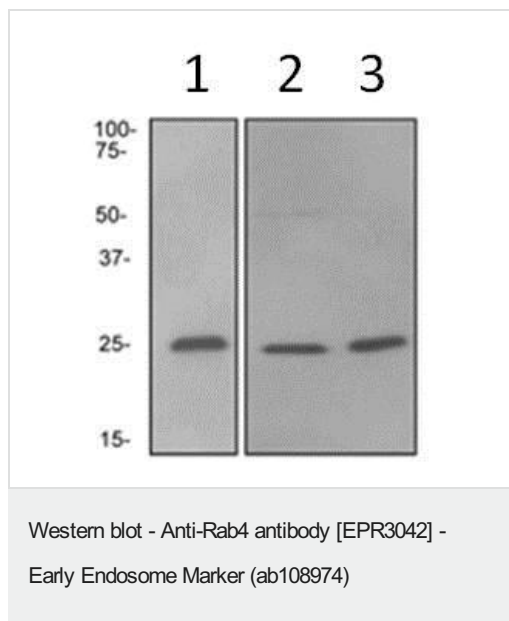
Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Rab4 with purified ab108974 at 1:100 dilution (8.8µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

Immunocytochemistry/ Immunofluorescence - Anti-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974)



Immunofluorescent staining of Rab4 in HeLa cells, using unpurified ab108974 at a 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974)



All lanes : Anti-Rab4 antibody [EPR3042] - Early Endosome

Marker (ab108974) at 1/2000 dilution (unpurified)

Lane 1 : MCF7 cell lysates

Lane 2 : PC12 cell lysates

Lane 3 : Fetal brain cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 24 kDa

Observed band size: 25 kDa

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-Rab4 antibody [EPR3042] - Early Endosome Marker (ab108974)

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