abcam

Product datasheet

Anti-Rab4 antibody [EPR3043] - Early Endosome Marker ab109009

敲除验证 重组 RabMAb

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概述

产品名称	Anti-Rab4抗体[EPR3043] - Early Endosome Marker
描述	兔单克隆抗体[EPR3043] to Rab4 - Early Endosome Marker
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IP, ICC/IF **不适用于:** 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	WB: MCF7, PC12, Neuro 2a, 293T, SH SY5Y and Human fetal brain lysates; ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells. IP: MCF7 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3043

同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab109009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。

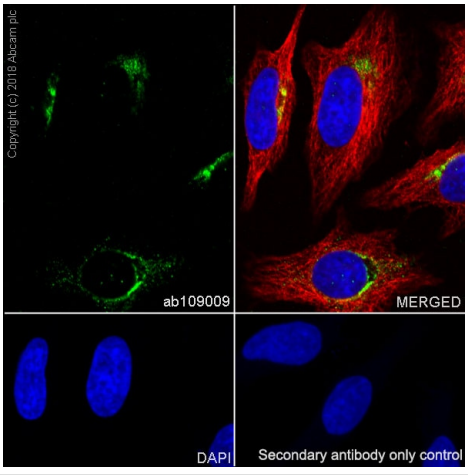
应用	Ab评论	说明
Flow Cyt (Intra)		1/200.
WB		1/1000 - 1/10000. Predicted molecular weight: 24 kDa.
IP		1/10 - 1/100.
ICC/IF	★☆☆☆☆ (1)	1/170 - 1/1000.

应用说明 Is unsuitable for IHC-P.

靶标

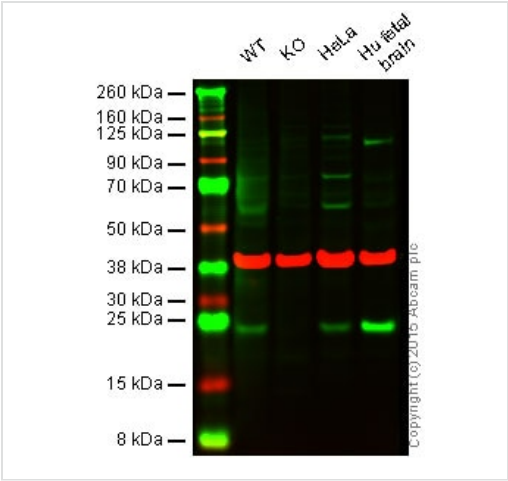
功能	Protein transport. Probably involved in vesicular traffic.
序列相似性	Belongs to the small GTPase superfamily. Rab family.
翻译后修饰	Phosphorylated by CDK1 kinase during mitosis.
细胞定位	Membrane. Cytoplasm. Generally associated with membranes. Cytoplasmic when phosphorylated by CDK1.

图片



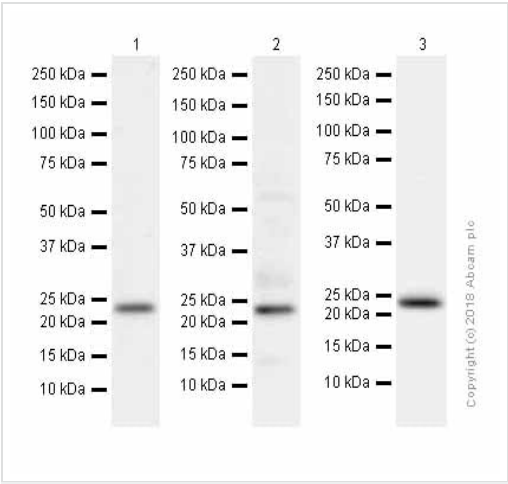
Immunocytochemistry/ Immunofluorescence - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Rab4 with Purified ab109009 at 1:170 dilution (10 µg/ml). Cells were fixed in 100% Methanol. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

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 lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab109009 observed at 24 kDa. Red - loading control, **ab8245**, observed at 37 kDa.
ab109009 was shown to specifically react with Rab4 when Rab4 knockout samples were used. Wild-type and Rab4 knockout samples were subjected to SDS-PAGE. ab109009 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) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

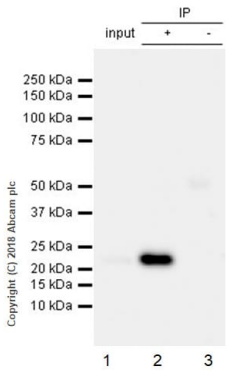
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/1000 dilution (Purified)

Lane 1 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates
Lane 2 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysates
Lane 3 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 1/15 dilution per lane.

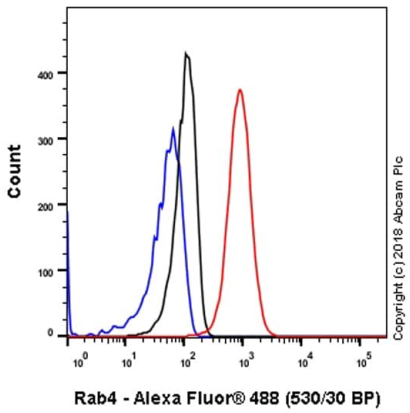
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 24 kDa



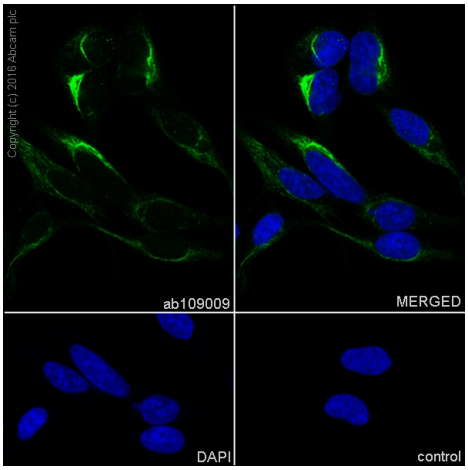
Immunoprecipitation - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

ab109009 (purified) at 1:80 dilution (2µg) immunoprecipitating Rab4 in MCF7 whole cell lysate.
Lane 1 (input): MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg
Lane 2 (+): ab109009 & MCF7 whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109009 in MCF7 whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.



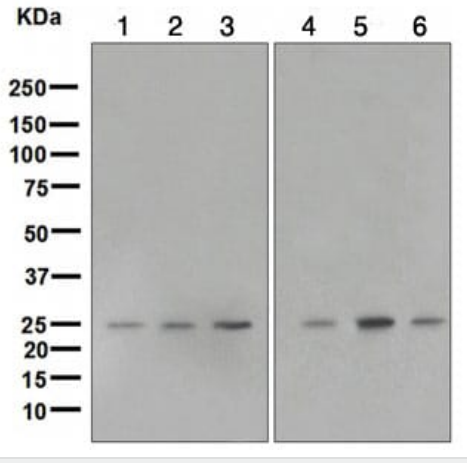
Flow Cytometry (Intracellular) - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Rab4 with Purified ab109009 at 1/200 dilution (1µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labelling Rab4 with purified ab109009 at 1/250. Cells were fixed with 100% methanol and permeabilized with 0.1% triton X-100. **ab150077** Goat anti rabbit IgG (Alexa Fluor® 488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



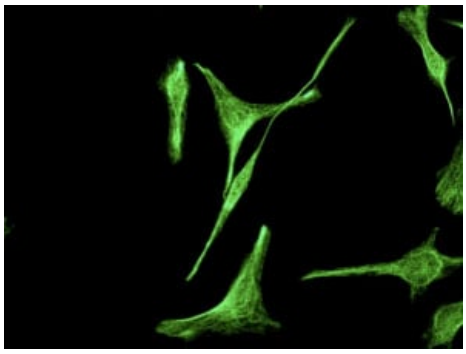
Western blot - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

All lanes : Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009) at 1/1000 dilution

Lane 1 : MCF7 cell lysate
Lane 2 : PC12 cell lysate
Lane 3 : Neuro 2a cell lysate
Lane 4 : 293T cell lysate
Lane 5 : SH SY5Y cell lysate
Lane 6 : Human fetal brain lysate

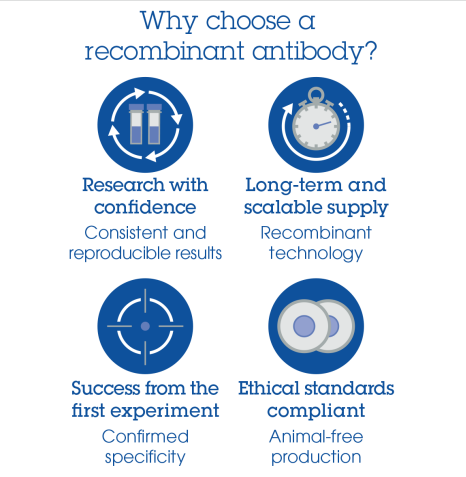
Lysates/proteins at 10 µg per lane.

Predicted band size: 24 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

ab109009 at 1/500 dilution staining Rab4 in HeLa by Immunofluorescence.



Anti-Rab4 antibody [EPR3043] - Early Endosome Marker (ab109009)

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