abcam

Product datasheet

Anti-EEA1 antibody [EPR4245] - Early Endosome Marker ab109110





重组 RabMAb

★★★★★ 4 Abreviews 13 References 5 图像

概述

产品名称 Anti-EEA1抗体[EPR4245] - Early Endosome Marker

描述 兔单克隆抗体[EPR4245] to EEA1 - Early Endosome Marker

宿主 Rabbit

经测试应用 适用于: ICC/IF, WB

不适用于: IP

种属反应性 与反应: Mouse, Rat, Human, African green monkey

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

WB: COS-1, NIH 3T3, C6, HeLa, Jurkat, Daudi, SH-SY5Y and JAR cell lysates. ICC/IF: JAR cells. 阳性对照

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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Stable for 12 months at -20°C.

pH: 7.20 存储溶液

Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

supernatant

纯度 Protein A purified

克隆 单克隆

克隆编号 **EPR4245**

同种型 lgG

应用

Abpromise™承诺保证使用ab109110于以下的经测试应用 The Abpromise guarantee

"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
ICC/IF	**** <u>(1)</u>	1/500 - 1/1000.
WB	**** <u>(2)</u>	1/10000 - 1/50000. Detects a band of approximately 170 kDa (predicted molecular weight: 162 kDa).

Is unsuitable for IP. 应用说明

靶标

功能 Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in

endosomal trafficking.

序列相似性 Contains 1 C2H2-type zinc finger.

Contains 1 FYVE-type zinc finger.

结构域 The FYVE-type zinc finger domain mediates interactions with phosphatidylinositol 3-phosphate in

membranes of early endosomes and penetrates bilayers. The FYVE domain insertion into

Lane 2: Early Endosome Marker knockout HAP1 whole cell lysate

Lanes 1 - 4: Merged signal (red and green). Green - ab109110

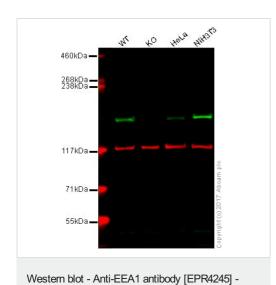
Ptdlns(3)P-enriched membranes is substantially increased in acidic conditions.

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

Lane 3: HeLa whole cell lysate (20 µg) Lane 4: NIH3T3 whole cell lysate (20 µg)

细胞定位 Cytoplasm. Early endosome membrane.

图片



Early Endosome Marker (ab109110)

observed at 162 kDa. Red - loading control, ab18058, observed at

130 kDa.

 $(20 \mu g)$

ab109110 was shown to recognize Early Endosome Marker in wildtype HAP1 cells as signal was lost at the expected MW in Early Endosome Marker knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Early Endosome Marker knockout samples were subjected to SDS-PAGE. Ab109110 and ab18058 (Mouse anti-Vinculin loading

control) were incubated overnight at 4°C at 1/10000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit lgG H&L (IRDye[®] 800CW) preabsorbed <u>ab216773</u> and Goat anti-Mouse lgG H&L (IRDye[®] 680RD) preabsorbed <u>ab216776</u> secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

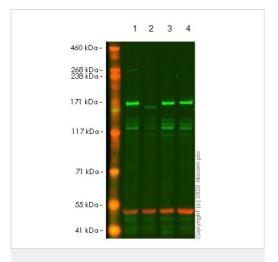
ab109110 MERGED

DAPI Secondary antibody only control

Immunocytochemistry/ Immunofluorescence - Anti-EEA1 antibody [EPR4245] - Early Endosome Marker (ab109110)

Immunocytochemistry/Immunofluorescence analysis of JAR (human placenta choriocarcinoma epithelial) cells labelling EEA1 with ab109110 at a dilution of 1/250. Cells were fixed with 4% paraformaldehye and permeabilized with 0.1% TritonX-100. ab150077, an Alexa Fluor[®] 488-conjugated goat anti-rabbit lgG was used as the secondary antibody at a dilution of 1/1000. Counterstained with DAPI and ab195889, anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594), at a dilution of 1/200.

Image shows cytoplasmic staining in JAR cell line.



Western blot - Anti-EEA1 antibody [EPR4245] - Early Endosome Marker (ab109110)

All lanes : Anti-EEA1 antibody [EPR4245] - Early Endosome Marker (ab109110) at 1/1000 dilution

Lane 1: Wild-type HeLa cell lysate

Lane 2: EEA1 CRISPR/Cas9 edited HeLa cell lysate

Lane 3 : Daudi cell lysate

Lane 4: SH-SY5Y cell lysate

Lysates/proteins at 20 µg per lane.

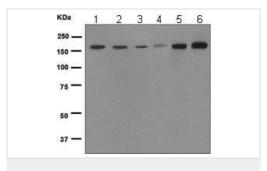
Performed under reducing conditions.

Predicted band size: 162 kDa **Observed band size:** 175 kDa

Lanes 1-4: Merged signal (red and green). Green - ab109110 observed at 175 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (ab8245) observed at 37 kDa.

ab109110 was shown to react with EEA1 in wild-type HeLa cells in

western blot. The band observed in CRISPR/Cas9 edited cell line ab261822 (CRISPR/Cas9 edited cell lysate ab266897) lane below 175kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type HeLa and EEA1 CRISPR/Cas9 edited HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab109110 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit lgG H&L (IRDye®800CW) preadsorbed (ab216773) and Goat anti-Mouse lgG H&L (IRDye®680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-EEA1 antibody [EPR4245] - Early Endosome Marker (ab109110)

All lanes : Anti-EEA1 antibody [EPR4245] - Early Endosome Marker (ab109110) at 1/10000 dilution

Lane 1 : COS-1 cell lysate

Lane 2 : NIH 3T3 cell lysate

Lane 3 : C6 cell lysate

Lane 4 : HeLa cell lysate

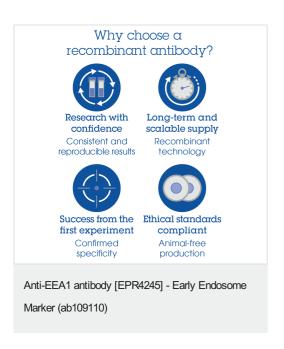
Lane 5 : Jurkat cell lysate
Lane 6 : JAR cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 162 kDa **Observed band size:** 170 kDa



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