


Anti-Cortactin antibody [EP1922Y] ab81208

敲除验证 重组 RabMAb

★★★★★ 2 Abreviews 32 References 9 图像

概述

产品名称	Anti-Cortactin抗体[EP1922Y]
描述	兔单克隆抗体[EP1922Y] to Cortactin
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa and HEK-293T cell lysate. IHC-P: Human breast carcinoma. ICC/IF: MCF7 and wild-type HAP1 cells. IP: HeLa cell lysate
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1922Y

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab81208于以下的经测试应用

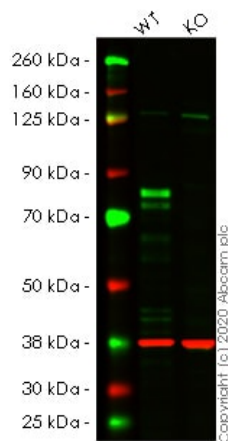
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/10. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/50000 - 1/100000. Predicted molecular weight: 62 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Heat mediated antigen retrieval with citrate buffer, pH 6 or Tris-EDTA, pH 9 are both suitable methods IHC-P with this antibody.
ICC/IF	★★★★★ (2)	1/1000.
IP		1/50.

靶标

功能	Contributes to the organization of the actin cytoskeleton and cell structure. Plays a role in the regulation of cell migration. Plays a role in the invasiveness of cancer cells, and the formation of metastases.
序列相似性	Contains 7 cortactin repeats. Contains 1 SH3 domain.
结构域	The SH3 motif may mediate binding to the cytoskeleton.
翻译后修饰	Tyrosine phosphorylation in transformed cells may contribute to cellular growth regulation and transformation.
细胞定位	Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cell projection > ruffle. Associated with membrane ruffles and lamellipodia.

图片



Western blot - Anti-Cortactin antibody [EP1922Y]
(ab81208)

All lanes : Anti-Cortactin antibody [EP1922Y] (ab81208) at 1/50000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : CTNN knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

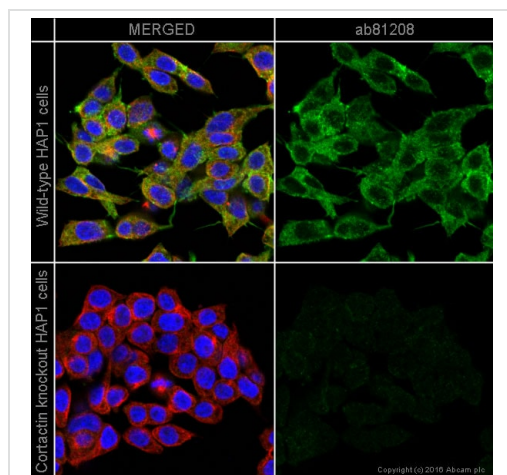
Performed under reducing conditions.

Predicted band size: 62 kDa

Observed band size: 70 kDa

Lanes 1-2: Merged signal (red and green). Green - ab81208 observed at 70 kDa. Red - loading control **ab8245** observed at 37 kDa.

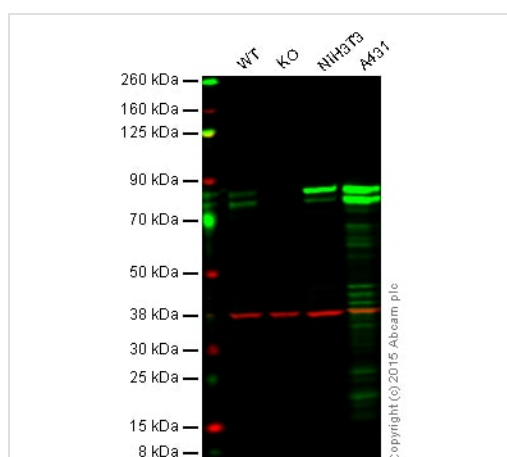
ab81208 Anti-Cortactin antibody [EP1922Y] was shown to specifically react with Cortactin in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266819** (knockout cell lysate **ab257147**) was used. Wild-type and Cortactin knockout samples were subjected to SDS-PAGE. ab81208 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 50000 Dilution and 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.



Immunocytochemistry/ Immunofluorescence - Anti-Cortactin antibody [EP1922Y] (ab81208)

ab81208 staining Cortactin in wild-type HAP1 cells (top panel) and Cortactin knockout HAP1 cells (bottom panel). The cells were fixed with 4% formaldehyde (10min), permeabilized with 0.1% Triton X-100 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 with ab81208 at 1/1000 dilution and [ab195889](#) at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) ([ab150081](#)) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Western blot - Anti-Cortactin antibody [EP1922Y] (ab81208)

All lanes : Anti-Cortactin antibody [EP1922Y] (ab81208) at 1/2000 dilution

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : Cortactin knockout HAP1 cell lysate

Lane 3 : NIH3T3 cell lysate

Lane 4 : A431 cell lysate

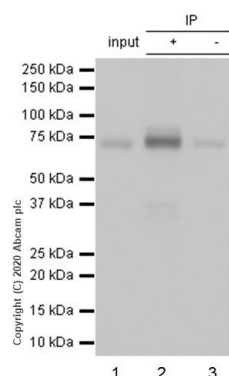
Lysates/proteins at 20 µg per lane.

Predicted band size: 62 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab81208 observed at 62 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab81208 was shown to specifically react with Cortactin in wild-type HAP1 cells along with additional cross reactive bands. No band was observed when Cortactin knockout samples were examined. Wild-type and Cortactin knockout samples were subjected to SDS-PAGE. ab81208 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 hour at room temperature before imaging.



Immunoprecipitation - Anti-Cortactin antibody
[EP1922Y] (ab81208)

Purified ab81208 at 1/50 dilution (2µg) immunoprecipitating Cortactin in HeLa whole cell lysate.

Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab81208 + HeLa whole cell lysate.

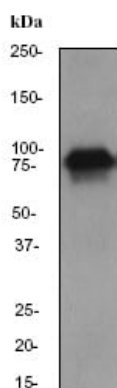
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab81208 in HeLa whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 62 kDa



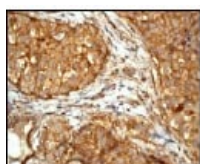
Western blot - Anti-Cortactin antibody [EP1922Y]
(ab81208)

Anti-Cortactin antibody [EP1922Y] (ab81208) at 1/100000 dilution + HeLa cell lysate at 10 µg

Secondary

HRP labelled Goat anti-Rabbit at 1/2000 dilution

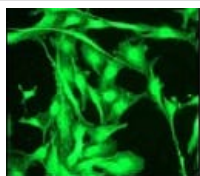
Predicted band size: 62 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cortactin antibody
[EP1922Y] (ab81208)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma staining Cortactin with ab81208 at 1/100 dilution. Heat mediated antigen retrieval with Tris-EDTA (pH 9) was performed.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Cortactin antibody [EP1922Y] (ab81208)

Immunofluorescent staining of MCF7 cells using 1/100 ab81208

Flow Cytometry (Intracellular) - Anti-Cortactin antibody [EP1922Y] (ab81208)

Overlay histogram showing HeLa cells stained with ab81208 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab81208, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Why choose a recombinant antibody?



Research with confidence
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Anti-Cortactin antibody [EP1922Y] (ab81208)

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