abcam

Product datasheet

Anti-Cortactin antibody [EP1922Y] ab81208

KO 評価済 リコンビナント RabMAb

★★★★★ 2 Abreviews 32 References 画像数 9

製品の概要

製品名	Anti-Cortactin antibody [EP1922Y]
製品の詳細	Rabbit monoclonal [EP1922Y] to Cortactin
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
種交差性	**交差種:** Mouse, Human **交差が予測される動物種:** Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa and HEK-293T cell lysate. IHC-P: Human breast carcinoma. ICC/IF: MCF7 and wild-type HAP1 cells. IP: HeLa cell lysate
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP1922Y

アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab81208の使用に適用されます

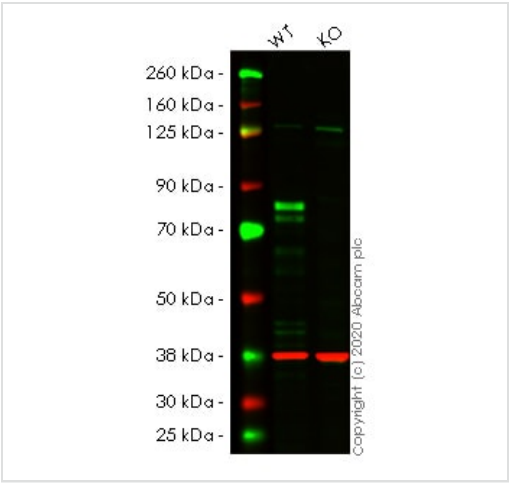
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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.

ターゲット情報

機能	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.
配列類似性	Contains 7 cortactin repeats. Contains 1 SH3 domain.
ドメイン	The SH3 motif may mediate binding to the cytoskeleton.
翻訳後修飾	Tyrosine phosphorylation in transformed cells may contribute to cellular growth regulation and transformation.
細胞内局在	Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cell projection > ruffle. Associated with membrane ruffles and lamellipodia.

画像



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

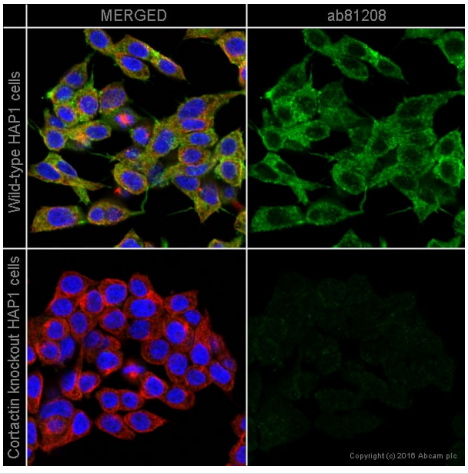
Lysates/proteins at 20 µg per lane.

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.

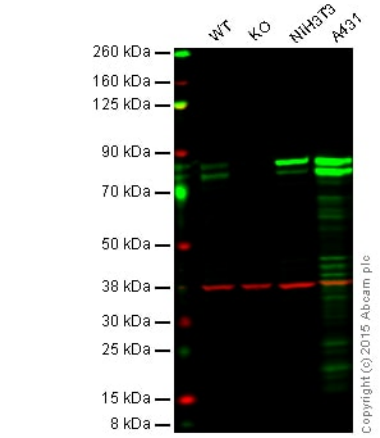
ab81208 Anti-Cortactin antibody [EP1922Y] was shown to specifically react with Cortactin in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266819** (knockout cell lysate **ab257147**) was used. Wild-type and Cortactin knockout samples were subjected to SDS-PAGE. ab81208 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

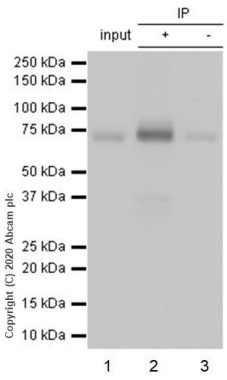
Lysates/proteins at 20 µg per lane.

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.

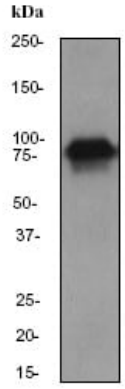
ab81208 was shown to specifically react with Cortactin in wild-type HAP1 cells along with additional cross reactive bands. No band was observed when Cortactin knockout samples were examined. Wild-type and Cortactin knockout samples were subjected to SDS-PAGE. ab81208 and **ab8245** (loading control to 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

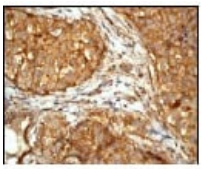


Western blot - Anti-Cortactin antibody [EP1922Y] (ab81208)

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

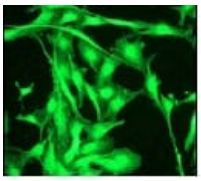
Predicted band size: 62 kDa



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

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

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/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

Anti-Cortactin antibody [EP1922Y] (ab81208)

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