abcam

Product datasheet

Anti-Cortactin antibody [EP1922Y] - BSA and Azide free ab223125

KO VALIDATED Recombinant RabMAb

4 References 6 Images

Overview

Product name	Anti-Cortactin antibody [EP1922Y] - BSA and Azide free
Description	Rabbit monoclonal [EP1922Y] to Cortactin - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, IP, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa cell lysate. IHC-P: Human breast carcinoma tissue. ICC/IF: MCF7 and wildtype HAP1 cells. IP: HeLa cell lysate
General notes	ab223125 is the carrier-free version of **ab81208**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1922Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab223125 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

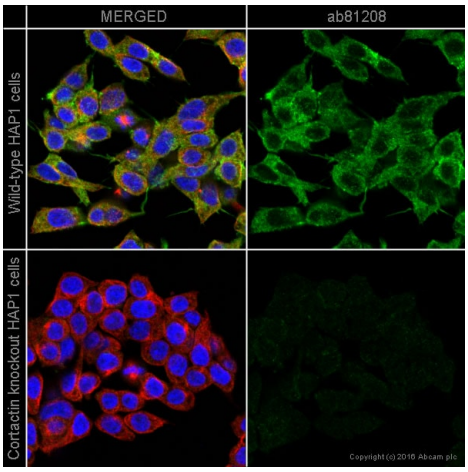
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Predicted molecular weight: 62 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Target

Function	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.
Sequence similarities	Contains 7 cortactin repeats. Contains 1 SH3 domain.
Domain	The SH3 motif may mediate binding to the cytoskeleton.
Post-translational	Tyrosine phosphorylation in transformed cells may contribute to cellular growth regulation and

modifications	transformation.
Cellular localization	Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cell projection > ruffle. Associated with membrane ruffles and lamellipodia.

Images

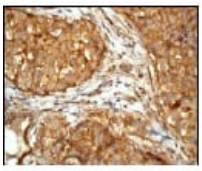


Immunocytochemistry/ Immunofluorescence - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab81208**).

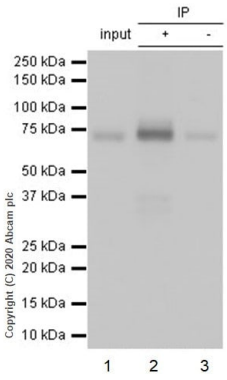


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

Immunohistochemical staining of paraffin-embedded human breast carcinoma using 1/100 **ab81208**.

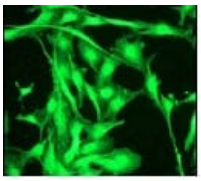
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab81208**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



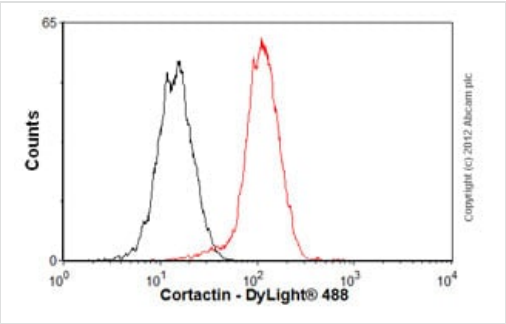
Immunoprecipitation - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab81208**).



Immunocytochemistry/ Immunofluorescence - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

Immunofluorescent staining of MCF7 cells using 1/100 **ab81208**
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab81208**).



Flow Cytometry (Intracellular) - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab81208**).

Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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