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:** WB, IHC-P, IP, Flow Cyt, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide from N terminal region of Human Cortactin
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. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. 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. ab223125 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *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. Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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

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.

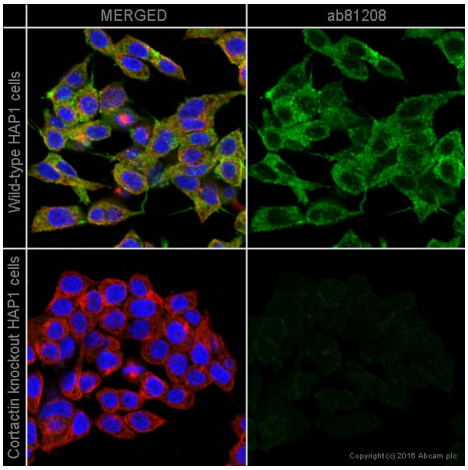
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 62 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.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

Application	Abreviews	Notes
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 modifications	Tyrosine phosphorylation in transformed cells may contribute to cellular growth regulation and transformation.
Cellular localization	Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cell projection > ruffle. Associated with membrane ruffles and lamellipodia.

Images

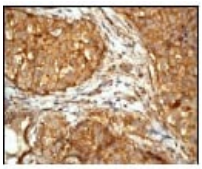


Immunocytochemistry/ Immunofluorescence - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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).

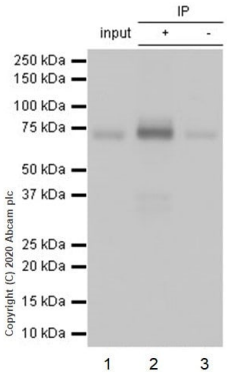


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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

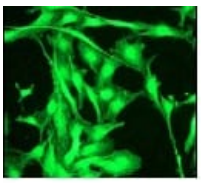
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab81208).

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



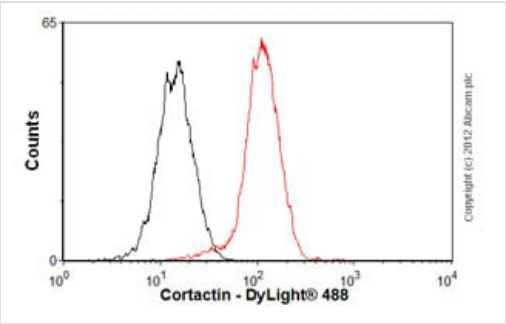
Immunoprecipitation - Anti-Cortactin antibody [EP1922Y] - BSA and Azide free (ab223125)

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 - 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).

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