abcam

ab16794

Anti-APC antibody [CC-1]

Anti-APC antibody [CC-1] (ab16794) is a mouse monoclonal antibody detecting APC in **Flow Cytometry, IHC-P, ICC/IF**. Suitable for **Human**.

- Over 130 publications
- Trusted since 2005

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 1.902% Tris glycine, 0.8766% Sodium chloride
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human APC aa 1-250. The exact immunogen used to generate this antibody is proprietary information. Database link P25054
Clone number	CC-1
Purification technique	Affinity purification Protein G
Epitope	Epitope is within amino acid residues 1 - 226 of APC.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information APC

Function Tumor suppressor. Promotes rapid degradation of CTNNB1 and participates in Wnt signaling as a negative regulator. APC activity is correlated with its phosphorylation state. Activates the GEF activity of SPATA13 and ARHGEF4. Plays a role in hepatocyte growth factor (HGF)-induced cell migration. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Associates with both microtubules and actin filaments, components of the cytoskeleton (PubMed:17293347). Plays a role in mediating the organization of F-actin into ordered bundles (PubMed:17293347). Functions downstream of Rho GTPases and DIAPH1 to selectively stabilize microtubules (By similarity). Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex. It is required for the localization of MACF1 to the cell membrane and this localization of MACF1 is critical for its function in microtubule stabilization.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Aliquoting information	Upon delivery aliquot

Notes

Anti-APC antibody [CC-1] (ab16794) is a House Mouse Monoclonal antibody and is validated for use in Flow Cyt, ICC/IF, IHC-P in human samples.

Anti-APC antibody [CC-1] (ab16794) has been cited over 130 times in peer reviewed journals and is trusted by the scientific community.

Abcams high quality validation processes ensure Anti-APC antibody [CC-1] (ab16794) has high sensitivity and specificity.

Anti-APC antibody [CC-1] (ab16794) has 5 independent reviews from customers.

Anti-APC antibody [CC-1] (ab16794) specifically detects APC (UniProt ID: P25054; Molecular weight: 312kDa) and is sold in 50 ug selling sizes.

APC (Adenomatous Polyposis Coli) is a crucial tumor suppressor gene involved in regulating cell growth, adhesion, and division. APC protein interacts with beta-catenin, controlling its levels to prevent uncontrolled cell growth.

APC is well suited for immunohistochemical and immunofluorescence studies of oligodendrocytes and optic nerves due to the antibody's staining of the cell body as opposed to the myelinated processes.

Although we list several publications demonstrating mouse reactivity, we have also received conflicting data from researchers demonstrating a lack of mouse reactivity. Therefore, we have removed mouse from our list of reactive species and no longer guarantee the product for this species.

This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

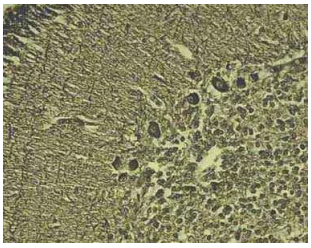
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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3 product images

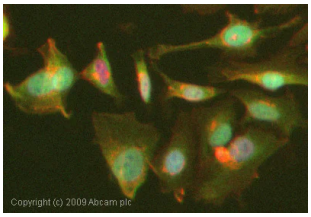


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APC antibody [CC-1] (ab16794)

APC Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-APC antibody

IHC analysis of formalin-fixed, paraffin embedded human cerebellum with ab16794.
Antibody was used at a concentration of 2.5 µg/ml and sections were pretreated with heat using a pressure cooker prior to staining. Detection with DAB and hematoxylin as a counterstain.

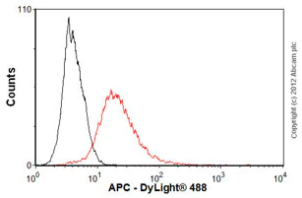
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-APC antibody [CC-1] (ab16794)

APC Immunocytochemistry/ Immunofluorescence staining using mouse Anti-APC antibody

ICC/IF image of ab16794 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab16794, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
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Flow Cytometry - Anti-APC antibody [CC-1] (ab16794)

APC Flow Cytometry staining using mouse Anti-APC antibody

Overlay histogram showing HCT116 cells stained with ab16794 (red line). The cells were fixed with 4% paraformaldehyde (10 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 (ab16794, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (ab91366, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HCT116 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.
This image was generated using the ascites version of the product.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.