

Anti-AP2 gamma/TFAP2C antibody [3B5] ab110635

[1 Abreviews](#) [1 References](#) [5 Images](#)

Overview

Product name	Anti-AP2 gamma/TFAP2C antibody [3B5]
Description	Mouse monoclonal [3B5] to AP2 gamma/TFAP2C
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: PC-7, A431, mouse placenta, and RAW 264.7 cell lysates; ICC/IF: HeLa, MCF-7, and U251 cells; IHC-P: Human breast cancer;
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 99.85% PBS, 0.1% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	3B5
Isotype	IgG2b

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab110635 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
IHC-P		1/50.
WB		1/100 - 1/1000. Predicted molecular weight: 49 kDa. Block with BSA only (not milk).
ICC/IF		1/50 - 1/500.

Target

Function

Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC.

Sequence similarities

Belongs to the AP-2 family.

Domain

The WW-binding motif mediates interaction with WWOX.

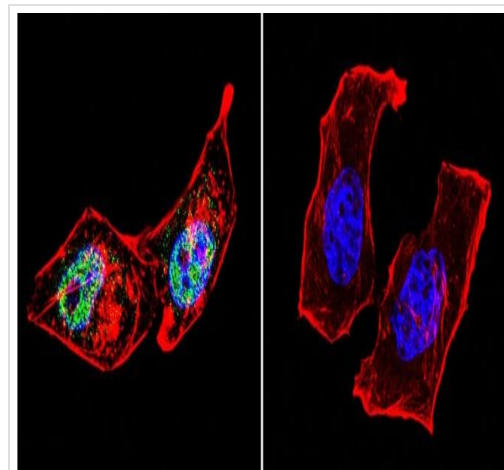
Post-translational modifications

Sumoylated on Lys-10; which inhibits transcriptional activity.

Cellular localization

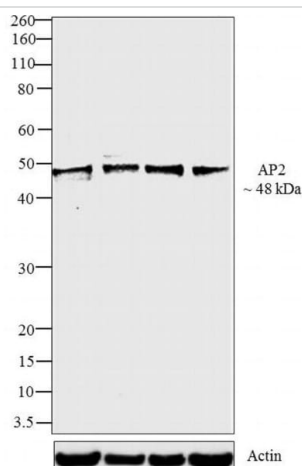
Nucleus.

Images



Immunofluorescent analysis of AP2 gamma/TFAP2C using ab110635 shows staining in HeLa Cells. AP2 gamma/TFAP2C staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with ab110635 at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a Goat Anti-Mouse DyLight-488 conjugated secondary antibody. Images were taken at 60X magnification.

Immunocytochemistry/ Immunofluorescence - Anti-AP2 gamma/TFAP2C antibody [3B5] (ab110635)



Western blot - Anti-AP2 gamma/TFAP2C antibody [3B5] (ab110635)

All lanes : Anti-AP2 gamma/TFAP2C antibody [3B5] (ab110635) at 1/50 dilution

Lane 1 : PC-3 cell lysate

Lane 2 : A431 cell lysate

Lane 3 : Mouse placenta cell lysate

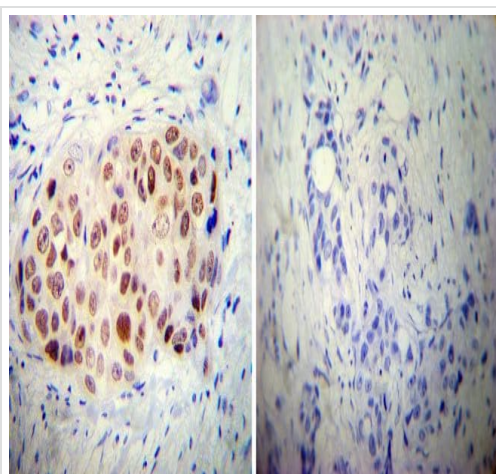
Lane 4 : RAW 264.7 cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

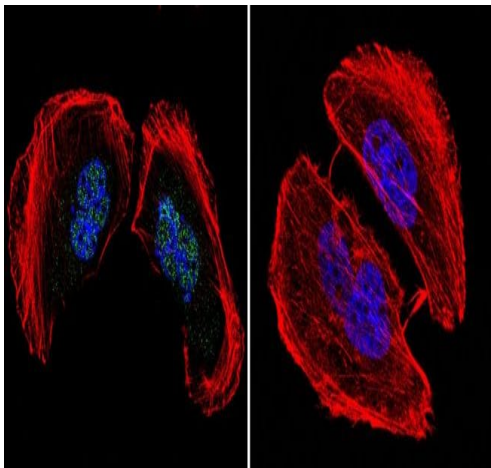
All lanes : Goat anti-Mouse IgG (H+L), HRP conjugate at 1/4000 dilution

Predicted band size: 49 kDa



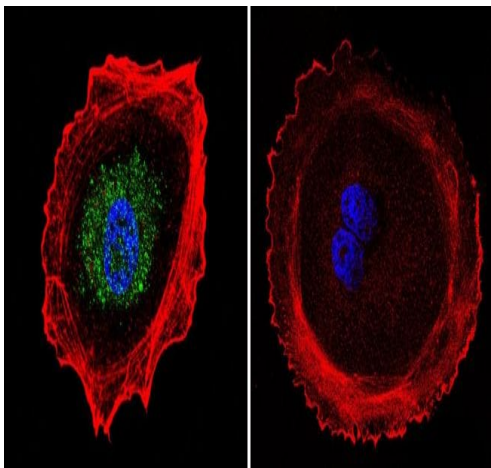
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AP2 gamma/TFAP2C antibody [3B5] (ab110635)

Immunohistochemistry was performed on cancer biopsies of deparaffinized Human breast carcinoma tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:50 with ab110635 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunocytochemistry/ Immunofluorescence - Anti-AP2 gamma/TFAP2C antibody [3B5] (ab110635)

Immunofluorescent analysis of AP2 gamma/TFAP2C using ab110635 shows staining in U251 Cells. AP2 gamma/TFAP2C staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with ab110635 at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a Goat Anti-Mouse DyLight-488 conjugated secondary antibody. Images were taken at 60X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-AP2 gamma/TFAP2C antibody [3B5] (ab110635)

Immunofluorescent analysis of AP2 gamma/TFAP2C using ab110635 shows staining in MCF-7 Cells. AP2 gamma/TFAP2C staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with ab110635 at a dilution of 1:20 over night at 4°C, washed with PBS and incubated with a Goat Anti-Mouse DyLight-488 conjugated secondary antibody. Images were taken at 60X magnification.

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