abcam

ab181242

Anti-ANP32C/PP32R1 antibody [EPR13354]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR13354
Purity	Tissue culture supernatant

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30 - 1/70
Notes	-

WB

Tested

Species	Human
Dilution info	1/10000 - 1/50000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/20
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information ANP32CP

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	ANP32C also known as PP32R1 is a protein with a mass of approximately 30 kDa. It belongs to the acidic nuclear phosphoprotein 32 kDa family and plays mechanical roles in several cellular processes. ANP32C localizes mainly in the nucleus and shows expression in various tissues with notable presence in the brain and peripheral blood. Its functions involve interactions with other proteins to regulate cellular processes making it a significant target for research in cellular biology.
Biological function summary	ANP32C influences multiple cellular events including regulation of gene expression apoptosis and chromatin modification. It is part of several multiprotein complexes which contribute to its role in transcriptional regulation and cell cycle progression. The interaction of ANP32C with histone acetyltransferases plays a significant role in chromatin remodeling affecting gene expression patterns. This protein's actions are critical for maintaining normal cellular functions and responding to stress conditions.
Pathways	ANP32C engages in the apoptotic and inflammatory signaling pathways. It associates with proteins such as caspases and NF-kappa B influencing cell survival and immune responses. ANP32C's participation in the apoptotic pathway reflects its role in regulating programmed cell death a fundamental process for tissue homeostasis and development. Its interaction with inflammatory mediators highlights its contribution to immune responses and potential implications in inflammatory conditions.
Associated diseases and disorders	ANP32C has connections to cancer and neurodegenerative diseases. Abnormal expression or mutation of ANP32C correlates with increased proliferation in some cancers emphasizing its role in tumorigenesis. Additionally the protein links with tau pathology implicating it in neurodegenerative disorders such as Alzheimer's disease. These associations suggest that ANP32C along with interacting proteins

like tau may serve as potential therapeutic targets for disease intervention strategies.

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

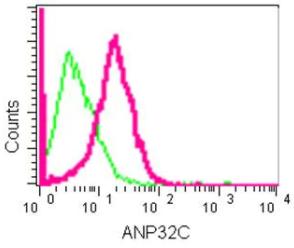
We do not recommend this combination. It is not covered by our product promise.

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.

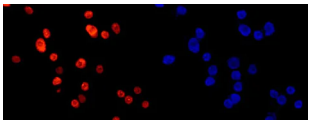
4 product images



Flow Cytometry (Intracellular) - Anti-ANP32C/PP32R1 antibody [EPR13354] (ab181242)

ANP32C/PP32R1 Flow Cytometry (Intracellular) staining using rabbit Anti-ANP32C/PP32R1 antibody

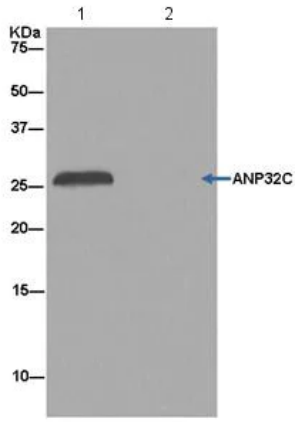
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed MCF-7 cells labeling ANP32C/PP32R1 with ab181242 at 1/20 dilution (red), compared to a Rabbit monoclonal IgG isotype control (green), followed by Goat anti rabbit IgG (FITC) secondary antibodyat 1/150 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-ANP32C/PP32R1 antibody [EPR13354] (ab181242)

ANP32C/PP32R1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-ANP32C/PP32R1 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed PC-3 cells labeling ANP32C/PP32R1 with ab181242 at 1/250 dilution followed by Goat anti rabbit IgG (Alexa Fluor®555) secondary antibody at 1/200 dilution. Counter stained with Dapi (blue).



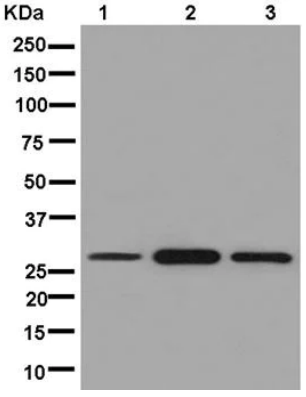
Immunoprecipitation - Anti-ANP32C/PP32R1 antibody [EPR13354] (ab181242)

Western blot analysis of ANP32C/PP32R1 in MCF-7 cell lysate immunoprecipitated with ab181242 at 1/50 dilution.
Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

All lanes:
Immunoprecipitation - Anti-ANP32C/PP32R1 antibody [EPR13354] (ab181242)

Predicted band size: 27 kDa

Observed band size: 27 kDa



Western blot - Anti-ANP32C/PP32R1 antibody [EPR13354] (ab181242)

All lanes:
Western blot - Anti-ANP32C/PP32R1 antibody [EPR13354] (ab181242) at 1/10000 dilution

Lane 1:
HUVEC cell lysate at 20 µg

Lane 2:
PC-3 cell lysate at 20 µg

Lane 3:
BxPC-3 cell lysate at 20 µg

Secondary

All lanes:
Goat anti-rabbit IgG, (H+L), peroxidase conjugate at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

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