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KD-Validated Anti-ANP32B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1212

Specification

KD-Validated Anti-ANP32B Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q92688
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 29 kDa , observed, 29 kDa KDa**
Gene Name	**ANP32B**
Aliases	**ANP32B; Acidic Nuclear Phosphoprotein 32 Family Member B; PHAPI2; APRIL; Acidic Protein Rich In Leucines; SSP29; Acidic (Leucine-Rich) Nuclear Phosphoprotein 32 Family, Member B; Acidic Leucine-Rich Nuclear Phosphoprotein 32 Family Member B; Putative HLA-DR-Associated Protein I-2; Silver-Stainable Protein SSP29**
Immunogen	**A synthesized peptide derived from human PHAPI2 / APRIL**

KD-Validated Anti-ANP32B Rabbit Monoclonal Antibody - Additional Information

Gene ID	**10541**

Other Names
Acidic leucine-rich nuclear phosphoprotein 32 family member B, Acidic protein rich in leucines, Putative HLA-DR-associated protein I-2, PHAPI2, Silver-stainable protein SSP29, ANP32B, APRIL, PHAPI2

KD-Validated Anti-ANP32B Rabbit Monoclonal Antibody - Protein Information

Name ANP32B

Synonyms APRIL, PHAPI2

Function
Multifunctional protein that is involved in the regulation of many processes including cell proliferation, apoptosis, cell cycle progression or transcription (PubMed:18039846, PubMed:20015864). Regulates the proliferation of neuronal stem cells, differentiation of leukemic cells and progression from G1 to S phase of the cell cycle. As negative regulator of caspase-3-dependent apoptosis, may act as an antagonist of ANP32A in regulating tissue homeostasis (PubMed:20015864). Exhibits histone chaperone properties, able to recruit histones to certain promoters, thus regulating the

transcription of specific genes (PubMed:18039846, PubMed:20538007). Also plays an essential role in the nucleocytoplasmic transport of specific mRNAs via the uncommon nuclear mRNA export receptor XPO1/CRM1 (PubMed:17178712). Participates in the regulation of adequate adaptive immune responses by acting on mRNA expression and cell proliferation (By similarity).

Cellular Location
[Isoform 1]: Nucleus. Cytoplasm Note=Accumulates in the nuclei at the S phase.

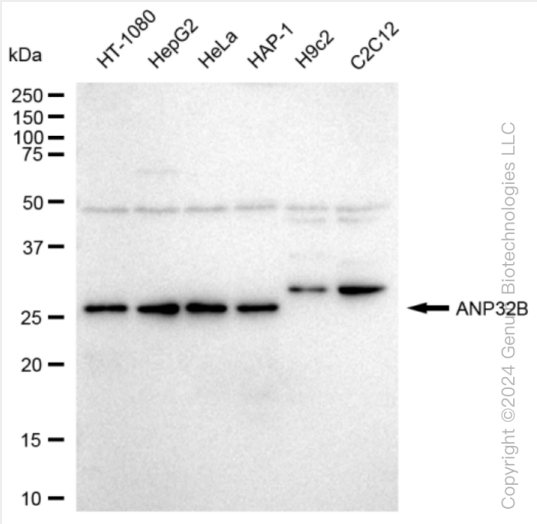
Tissue Location
Expressed in heart, lung, pancreas, prostate and in spleen, thymus and placenta.

KD-Validated Anti-ANP32B Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-ANP32B Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ANP32B antibody (Cat#AGI1212). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ANP32B antibody (Cat#AGI1212, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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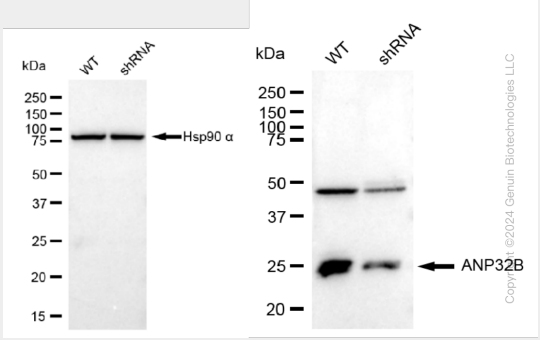
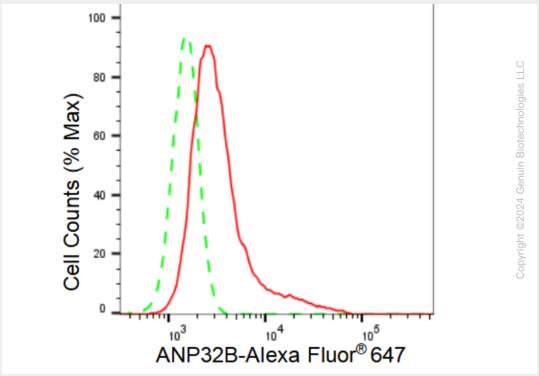
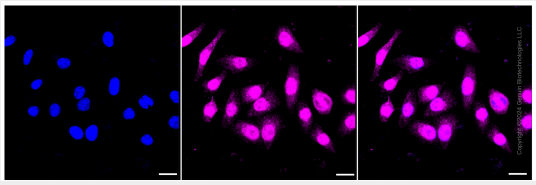


Western blotting analysis using anti-ANP32B antibody (Cat#AGI1212). ANP32B expression in wild type (WT) and ANP32B shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ANP32B antibody (Cat#AGI1212, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ANP32B expression in HepG2 cells using ANP32B antibody (Cat#AGI1212, 1:2,000). Green, isotype control; red, ANP32B.



Immunocytochemical staining of HepG2 cells with ANP32B antibody (Cat#AGI1212, 1:1,000). Nuclei were stained blue with DAPI; ANP32B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.