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PHAPI2 Rabbit mAb

Catalog # AP75903

Product Information

Application	WB, IHC-P, FC
Primary Accession	Q92688
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	28788

Additional Information

Gene ID	10541
Other Names	ANP32B
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:20
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

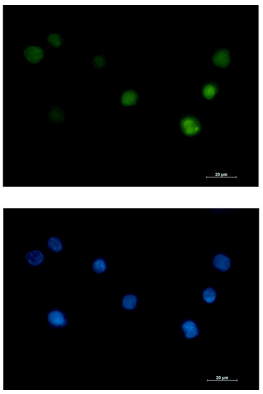
Name	ANP32B
Synonyms	APRIL, PHAPI2
Function	Multifunctional protein that is involved in the regulation of many processes including cell proliferation, apoptosis, cell cycle progression or transcription (PubMed:18039846, PubMed:20015864). Regulates the proliferation of neuronal stem cells, differentiation 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.

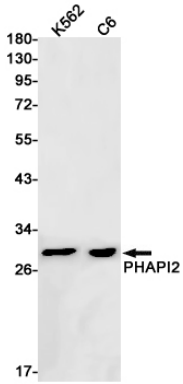
Background

Enables RNA polymerase binding activity and histone binding activity. Involved in several processes, including activation of cysteine-type endopeptidase activity involved in apoptotic process; nucleosome assembly; and positive regulation of protein export from nucleus. Located in cytoplasm and nucleoplasm. Colocalizes with nucleolus.

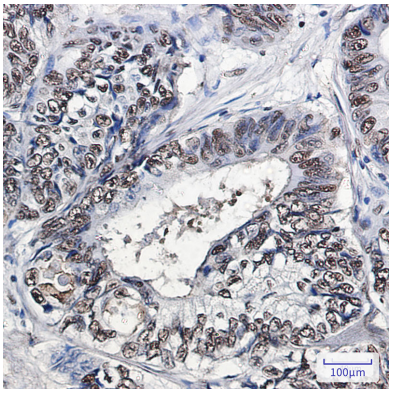
Images



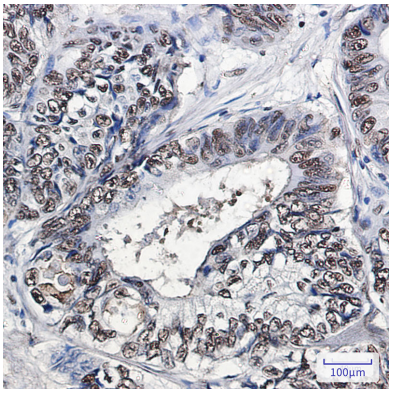
Immunocytochemistry analysis of PHAPI2 (green) in K562 using PHAPI2 antibody,and DAPI(blue).



Western blot analysis of PHAPI2 in K562, C6 lysates using PHAPI2 antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer tissue using PHAPI2/APRIL antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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