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PHAPI2 Polyclonal Antibody

Catalog # AP71878

Product Information

Application	WB, E, IHC-P
Primary Accession	Q92688
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28788

Additional Information

Gene ID	10541
Other Names	ANP32B; APRIL; PHAPI2; 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
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

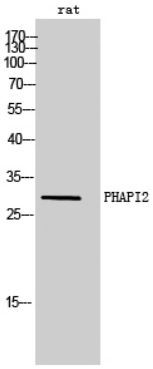
Name	ANP32B
Synonyms	APRIL, PHAPI2
Function	Multifunctional protein that is involved in the regulation of many processes including cell proliferation, apoptosis, cell cycle progression or transcription (PubMed:18039846, PubMed:20015864). Regulates the proliferation of neuronal stem cells, differentiation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

Multifunctional protein working as a cell cycle progression factor as well as a cell survival factor. Required for the progression from the G1 to the S phase. Anti-apoptotic protein which functions as a caspase-3 inhibitor. Has no phosphatase 2A (PP2A) inhibitor activity (By similarity). Exhibits histone chaperone properties, stimulating core histones to assemble into a nucleosome.

Images



Western Blot analysis of rat cells using PHAPI2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).