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ANP32B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17005a

Product Information

Application	WB, E
Primary Accession	Q92688
Other Accession	Q3SZC6, NP_006392.1
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36751
Calculated MW	28788
Antigen Region	17-45

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
Target/Specificity	This ANP32B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-45 amino acids from the N-terminal region of human ANP32B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ANP32B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

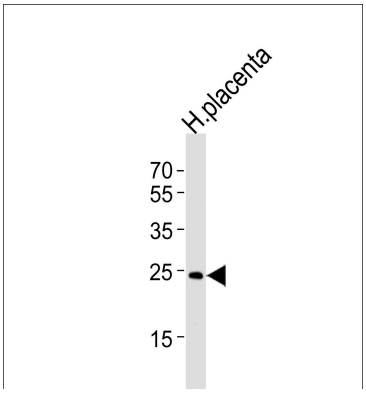
Background

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).

References

Tochio, N., et al. J. Mol. Biol. 401(1):97-114(2010)
Shen, S.M., et al. Carcinogenesis 31(3):419-426(2010)
Chemnitz, J., et al. Eur. J. Immunol. 39(1):267-279(2009)
Munemasa, Y., et al. Mol. Cell. Biol. 28(3):1171-1181(2008)
Olsen, J.V., et al. Cell 127(3):635-648(2006)

Images



Western blot analysis of lysate from human placenta tissue lysate, using ANP32B Antibody (N-term)(Cat. #AP17005a). AP17005a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.