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# ANP32E Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20559a

## Product Information

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| **Application** | WB, IF, E |
| **Primary Accession** | Q9BTT0 |
| **Other Accession** | Q5XIE0, P97822 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB44588 |
| **Calculated MW** | 30692 |

## Additional Information

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| **Gene ID** | 81611 |
| **Other Names** | Acidic leucine-rich nuclear phosphoprotein 32 family member E, LANP-like protein, LANP-L, ANP32E |
| **Target/Specificity** | This ANP32E antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 21-44 amino acids from the N-terminal region of human ANP32E. |
| **Dilution** | WB~~1:1000 IF~~1:25 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** | ANP32E Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ANP32E |
| **Function** | Histone chaperone that specifically mediates the genome-wide removal of histone H2A.Z/H2AZ1 from the nucleosome: removes H2A.Z/H2AZ1 from its normal sites of deposition, especially from enhancer and insulator regions. |

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| | Not involved in deposition of H2A.Z/H2AZ1 in the nucleosome. May stabilize the evicted H2A.Z/H2AZ1-H2B dimer, thus shifting the equilibrium towards dissociation and the off-chromatin state (PubMed:24463511). Inhibits activity of protein phosphatase 2A (PP2A). Does not inhibit protein phosphatase 1. May play a role in cerebellar development and synaptogenesis. |
| **Cellular Location** | Cytoplasm. Nucleus. |
| **Tissue Location** | Expressed in peripheral blood leukocytes, colon, small intestine, prostate, thymus, spleen, skeletal muscle, liver and kidney. |

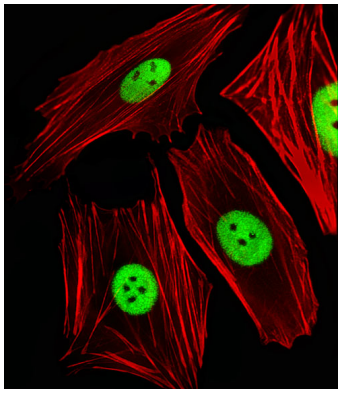
## Background

Inhibits activity of protein phosphatase 2A (PP2A). Does not inhibit protein phosphatase 1. May play a role in cerebellar development and synaptogenesis process by modulating PP2A activity (By similarity).

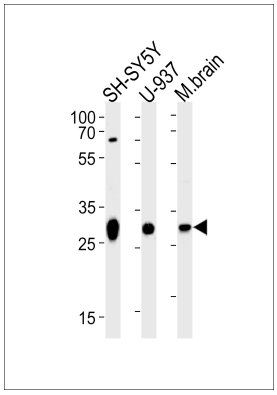
## References

Jiang M.,et al.Cytogenet. Genome Res. 97:68-71(2002). Ota T.,et al.Nat. Genet. 36:40-45(2004). Bechtel S.,et al.BMC Genomics 8:399-399(2007). Gregory S.G.,et al.Nature 441:315-321(2006). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

## Images



Fluorescent image of SH-SY5Y cells stained with ANP32E Antibody (N-term)(Cat#AP20559a). AP20559a was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).




Western blot analysis of lysates from SH-SY5Y, U-937 cell line and mouse brain tissue lysate (from left to right), using ANP32E Antibody (N-term) (Cat. #AP20559a). AP20559a 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.