

**ANP32A (D7Z5U) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H	Endogenous	28	Rabbit IgG	#P39687	8125

**Product Usage Information****Application**

Western Blotting  
Immunohistochemistry (Paraffin)

**Dilution**

1:1000  
1:3000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity  
Source / Purification**

ANP32A (D7Z5U) Rabbit mAb recognizes endogenous levels of total ANP32A protein.

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the amino terminus of human ANP32A protein.

**Background**

ANP32A is the founding member of the acidic nuclear phosphoprotein 32 kDa (ANP32) family, which share two highly conserved regions: the N-terminal leucine-rich repeats (LRRs) sequence and the C-terminal acidic tail (1). ANP32A was originally purified as a potent, heat-stable protein phosphatase 2A (PP2A)-specific inhibitor, and subsequent studies suggested that it binds directly to the catalytic subunit of PP2A (2,3). ANP32A is a key component of acetyltransferase inhibitor complex that regulates chromatin remodeling and transcription (4,5). ANP32A also forms a multiunit complex with HuR that regulates RNA transport and stability (6). In addition, ANP32A is reported to play roles in apoptosis, neural differentiation and pathogenesis (7-10).

**Background References**

1. Matilla, A. and Radrizzani, M. (2005) *Cerebellum* 4, 7-18.
2. Li, M. et al. (1995) *Biochemistry* 34, 1988-96.
3. Li, M. et al. (1996) *Biochemistry* 35, 6998-7002.
4. Seo, S.B. et al. (2002) *J Biol Chem* 277, 14005-10.
5. Schneider, R. et al. (2004) *J Biol Chem* 279, 23859-62.
6. Brennan, C.M. et al. (2000) *J Cell Biol* 151, 1-14.
7. Jiang, X. et al. (2003) *Science* 299, 223-6.
8. Chen, S. et al. (2008) *J Biol Chem* 283, 10513-21.
9. Kular, R.K. et al. (2009) *J Biol Chem* 284, 7783-92.
10. Cvetanovic, M. et al. (2012) *Neurobiol Dis* 48, 526-32.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

**Cross-Reactivity Key**

**H:** Human

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