

Goat Anti-SSP29 / ANP32B Antibody
Peptide-affinity purified goat antibody
Catalog # AF2035a**Specification**

Goat Anti-SSP29 / ANP32B Antibody - Product Information

Application	WB, IHC, E
Primary Accession	Q92688
Other Accession	NP_006392 , 10541 , 67628 (mouse) , 170724 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	28788

Goat Anti-SSP29 / ANP32B Antibody - 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

Dilution

WB~~1:1000
IHC~~1:100~500
E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SSP29 / ANP32B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SSP29 / ANP32B Antibody - 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.

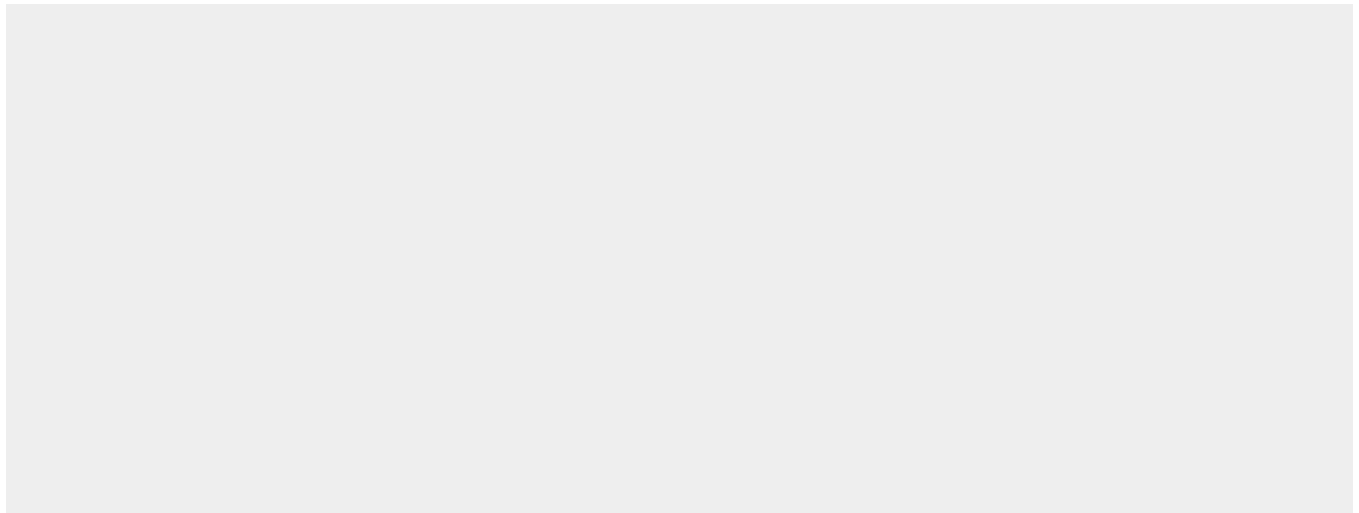
Tissue Location

Expressed in heart, lung, pancreas, prostate and in spleen, thymus and placenta.

Goat Anti-SSP29 / ANP32B Antibody - Protocols

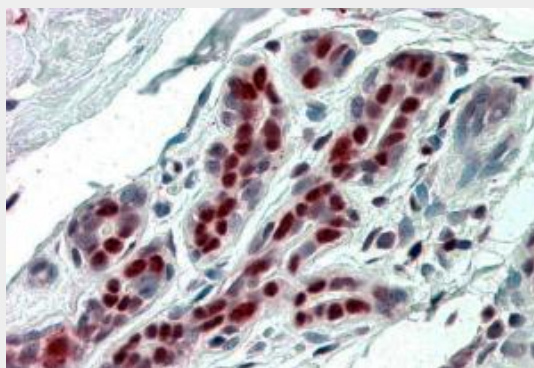
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SSP29 / ANP32B Antibody - Images



AF2035a (0.1ug/ml) staining of Human Tonsil lysate (35 μ g protein in RIPA buffer). Primary incubated was 1 hour. Detected by chemiluminescence.



AF2035a (3.8 μ g/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-SSP29 / ANP32B Antibody - References

Solution structure of histone chaperone ANP32B: interaction with core histones H3-H4 through its acidic concave domain. Tochio N, et al. J Mol Biol, 2010 Aug 6. PMID 20538007.

Downregulation of ANP32B, a novel substrate of caspase-3, enhances caspase-3 activation and apoptosis induction in myeloid leukemic cells. Shen SM, et al. Carcinogenesis, 2010 Mar. PMID 20015864.

Phosphorylation of the HuR ligand APRIL by casein kinase 2 regulates CD83 expression. Chemnitz J, et al. Eur J Immunol, 2009 Jan. PMID 19130553.

Promoter region-specific histone incorporation by the novel histone chaperone ANP32B and DNA-binding factor KLF5. Munemasa Y, et al. Mol Cell Biol, 2008 Feb. PMID 18039846.

Systematic analysis of the protein interaction network for the human transcription machinery reveals the identity of the 7SK capping enzyme. Jeronimo C, et al. Mol Cell, 2007 Jul 20. PMID 17643375.