

**BANP Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8526b****Specification**

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**BANP Antibody - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q8N9N5</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, $\kappa$
Calculated MW	56494

**BANP Antibody - Additional Information****Gene ID** 54971**Other Names**

Protein BANP, BEN domain-containing protein 1, Btg3-associated nuclear protein, Scaffold/matrix-associated region-1-binding protein, BANP, BEND1, SMAR1

**Target/Specificity**

This BANP antibody is generated from a mouse immunized with a recombinant protein between 30-390 amino acids from human BANP.

**Dilution**

WB~~1:1000

IHC-P~~1:25

E~~Use at an assay dependent concentration.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**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**

BANP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**BANP Antibody - Protein Information****Name** BANP**Synonyms** BEND1, SMAR1

**Function** Controls V(D)J recombination during T-cell development by repressing T-cell receptor (TCR) beta enhancer function (By similarity). Binds to scaffold/matrix attachment region beta (S/MARbeta), an ATC-rich DNA sequence located upstream of the TCR beta enhancer (By similarity). Represses cyclin D1 transcription by recruiting HDAC1 to its promoter, thereby diminishing H3K9ac, H3S10ph and H4K8ac levels (PubMed:[16166625](#)). Promotes TP53 activation, which causes cell cycle arrest (By similarity). Plays a role in the regulation of alternative splicing (PubMed:[26080397](#)). Binds to CD44 pre-mRNA and negatively regulates the inclusion of CD44 proximal variable exons v2-v6 but has no effect on distal variable exons v7-v10 (PubMed:[26080397](#)).

#### Cellular Location

Nucleus. Nucleus speckle. Cytoplasm Note=Primarily nuclear but translocates to the cytoplasm following MAPK1/MAPK3-mediated phosphorylation.

#### Tissue Location

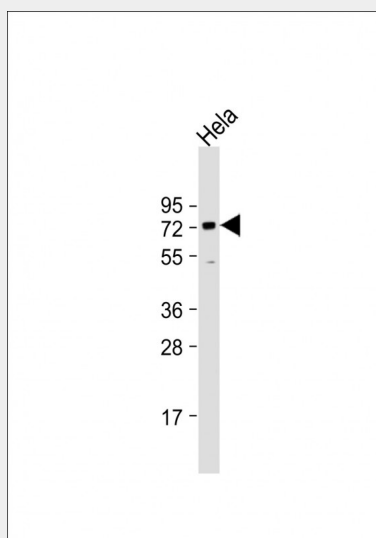
Down-regulated in breast cancer cell lines.

### BANP Antibody - Protocols

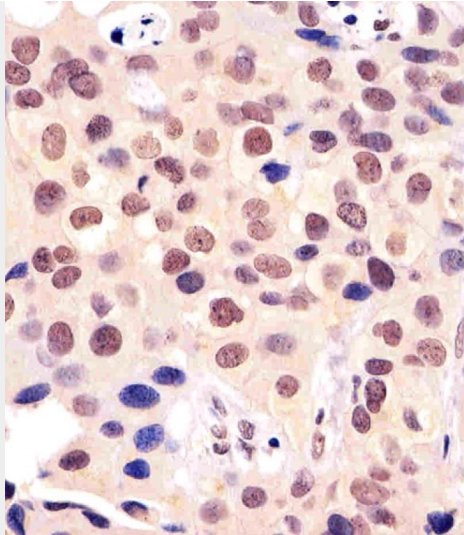
Provided below are standard protocols that you may find useful for product applications.

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

### BANP Antibody - Images



Anti-BANP Antibody at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 56 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AM8526b staining BANP in human breast carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **BANP Antibody - Background**

Controls V(D)J recombination during T-cell development by repressing T-cell receptor (TCR) beta enhancer function. Binds to scaffold/matrix attachment region beta (S/MARbeta), an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Represses cyclin D1 transcription by recruiting HDAC1 to its promoter, thereby diminishing H3K9ac, H3S10ph and H4K8ac levels. Promotes TP53 'Ser-15' phosphorylation and nuclear accumulation, which causes cell cycle arrest (By similarity).

#### **BANP Antibody - References**

Ota T., et al. Nat. Genet. 36:40-45(2004).  
Martin J., et al. Nature 432:988-994(2004).  
Biot A.-M., et al. Gene 253:189-196(2000).  
Rampalli S., et al. Mol. Cell. Biol. 25:8415-8429(2005).  
Olsen J.V., et al. Sci. Signal. 3:RA3-RA3(2010).