

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

**Specification**

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**BANP Antibody - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O8N9N5</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG1,<math>\kappa</math></b>
Calculated MW	<b>56494</b>

**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

**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. 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 activation, which causes cell cycle arrest (By similarity).

#### Cellular Location

Nucleus.

#### Tissue Location

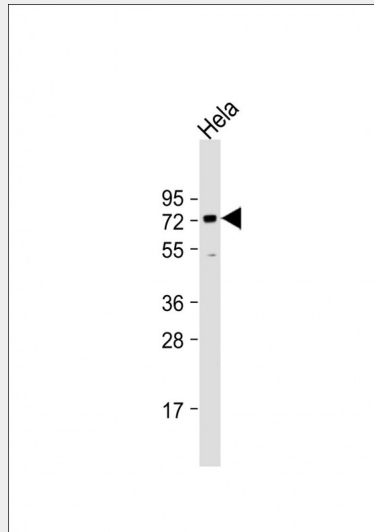
Down-regulated in breast cancer cell lines.

### BANP Antibody - Protocols

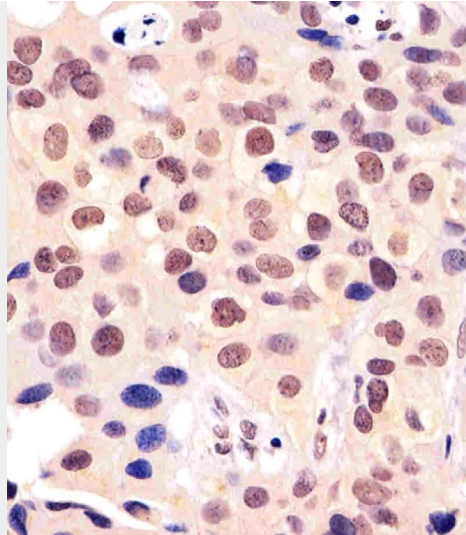
Provided below are standard protocols that you may find useful for product applications.

- [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).
- Birot 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).