

# BANP (1524CT337.6.32): sc-517314

## BACKGROUND

BANP (BTG3 associated nuclear protein), also known as BEND1, SMARBP1 or SMAR1, is a 519 amino acid protein that localizes to the nucleus and belongs to the BANP/SMAR1 family. Interacting with CDP and p53, BANP functions to control V(D)J recombination during T-cell development, specifically by binding to a scaffold/matrix DNA attachment region and repressing the enhancer function of TCR (T-cell receptor  $\beta$ ). Additionally, BANP promotes p53 serine phosphorylation, resulting in the subsequent nuclear accumulation of p53 and, ultimately, cell cycle arrest. BANP is down regulated in breast cancer cells, suggesting a role in tumor suppression. Three isoforms of BANP exist due to alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: BANP (human) mapping to 16q24.2; Banp (mouse) mapping to 8 E1.

## SOURCE

BANP (1524CT337.6.32) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 30-390 of BANP of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

BANP (1524CT337.6.32) is recommended for detection of BANP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for BANP siRNA (h): sc-72607, BANP siRNA (m): sc-72608, BANP shRNA Plasmid (h): sc-72607-SH, BANP shRNA Plasmid (m): sc-72608-SH, BANP shRNA (h) Lentiviral Particles: sc-72607-V and BANP shRNA (m) Lentiviral Particles: sc-72608-V.

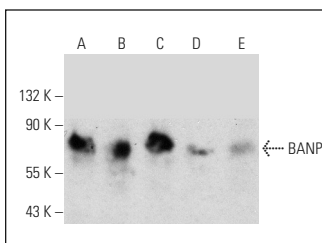
Molecular Weight of BANP: 56 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Neuro-2A whole cell lysate: sc-364185 or C6 whole cell lysate: sc-364373.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



BANP (1524CT337.6.32): sc-517314. Western blot analysis of BANP expression in HeLa nuclear extract (A), JAR (B), Neuro-2A (C) and C6 (D) whole cell lysates and human kidney tissue extract (E).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\* . Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.