

# BANP (H-129): sc-292634

## 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 $\beta$  (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 (H-129) is a rabbit polyclonal antibody raised against amino acids 211-339 mapping within an internal region of BANP of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292634 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

BANP (H-129) 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), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

BANP (H-129) is also recommended for detection of BANP in additional species, including equine, canine, bovine, porcine and avian.

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.

BANP (H-129) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BANP: 56 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.