

BANP (L-17): sc-82782

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 β (T cell receptor β). Additionally, BANP promotes p53 serine phosphorylation, resulting in the subsequent nuclear accumulation of p53 and, ultimately, cell cycle arrest. BANP is downregulated 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 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BANP of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-82782 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BANP (L-17) 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), 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 (L-17) is also recommended for detection of BANP in additional species, including equine, canine and bovine.

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.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.