

# BPTF (N-18): sc-107456

## BACKGROUND

BPTF (nucleosome-remodeling factor subunit BPTF, bromodomain and PHD finger-containing transcription factor) is a 2,907 amino acid protein encoded by the human gene BPTF. BPTF belongs to the PBTF family and contains one bromodomain, one DDT domain and two PHD-type zinc fingers. BPTF acts as a histone-binding component of NURF (nucleosome-remodeling factor). The NURF complex, which consists of SMARCA1, BPTF, RbAp46 and RbAp48, acts to catalyze ATP-dependent nucleosome sliding and facilitates transcription of chromatin. It specifically recognizes Histone H3 tails trimethylated on "Lys 4" (H3-K4Me3), which mark transcription start sites of virtually all active genes. BPTF may also help regulate transcription through direct binding to DNA or transcription factors.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: BPTF (human) mapping to 17q24.2.

## SOURCE

BPTF (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BPTF of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-107456 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-107456 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BPTF (N-18) is recommended for detection of BPTF of 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).

Suitable for use as control antibody for BPTF siRNA (h): sc-93894, BPTF shRNA Plasmid (h): sc-93894-SH and BPTF shRNA (h) Lentiviral Particles: sc-93894-V.

BPTF (N-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BPTF: 325 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.

## PROTOCOLS

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



Try **BPTF (2343C3a): sc-81088**, our highly recommended monoclonal alternative to BPTF (N-18).