

PB1 (N-19): sc-82303

BACKGROUND

PB1 (polybromo 1), also known as PBRM1 or BAF180, is a 1,689 amino acid protein that localizes to the nucleus and contains one HMG box DNA-binding domain, 2 BAH domains and 6 bromo domains. Expressed in a wide variety of tissues, PB1 functions as a component of the SWI/SNF-B (PBAF) chromatin-remodeling complex and, in conjunction with other proteins, is involved in the transcriptional activation or repression of target genes via the alternation of DNA-nucleosome topology. PB1 exists as nine alternatively spliced isoforms and, in response to DNA damage, may be phosphorylated by ATM or ATR. The gene encoding PB1 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

REFERENCES

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- Yan, Z., et al. 2005. PBAF chromatin-remodeling complex requires a novel specificity subunit, BAF200, to regulate expression of selective interferon-responsive genes. *Genes Dev.* 19: 1662-1667.
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- Chandrasekaran, R. and Thompson, M. 2007. Polybromo-1-bromodomains bind histone H3 at specific acetyl-lysine positions. *Biochem. Biophys. Res. Commun.* 355: 661-666.

CHROMOSOMAL LOCATION

Genetic locus: PBRM1 (human) mapping to 3p21.1; Pbrm1 (mouse) mapping to 14 B.

SOURCE

PB1 (N-19) is available as either goat (sc-82303) or rabbit (sc-82303-R) polyclonal affinity purified antibody raised against a peptide mapping near the N-terminus of PB1 of human origin.

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-82303 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82303 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PB1 (N-19) is recommended for detection of PB1 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).

PB1 (N-19) is also recommended for detection of PB1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PB1 siRNA (h): sc-76075, PB1 siRNA (m): sc-76076, PB1 shRNA Plasmid (h): sc-76075-SH, PB1 shRNA Plasmid (m): sc-76076-SH, PB1 shRNA (h) Lentiviral Particles: sc-76075-V and PB1 shRNA (m) Lentiviral Particles: sc-76076-V.

PB1 (N-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PB1: 180 kDa.

Positive Controls: Mouse brain extract: sc-2253.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: for goat primary antibody (sc-8303): 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), for rabbit primary antibody (sc-8303-R): 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) Immunofluorescence: for goat primary antibody (sc-8303): 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, for rabbit primary antibody (sc-8303-R): 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.

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.



Try **PB1 (D-8): sc-390095**, our highly recommended monoclonal alternative to PB1 (N-19).