BRF2 (C-20): sc-27201



The Power to Question

BACKGROUND

Human cells contain two types of RNA polymerase III transcription factor (TFIIIB), Brf1 and Brf2. Brf1 functions in recruitment of RNA polymerase III to the promoter for multiple rounds of transcription. Brf1 precisely positions TFIIIB on the upstream promoter-less DNA by creating stable protein-protein interactions with TATA-binding protein (TBP), another component of TFIIIB. Brf2 is recruited to type 3 promoters such as the human U6 snRNA promoter. It differs from Brf1-TFIIIB in that it contains the TFIIB-related factor Brf2 instead of Brf1 and its three components do not form a stable complex.

REFERENCES

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- Whitehall, S.K., et al. 1995. The symmetry of the yeast U6 RNA gene's TATA box and the orientation of the TATA-binding protein in yeast TFIIIB. Genes Dev. 9: 2974-85.
- Ishiguro, A., et al. 2002. Essential roles of Bdp1, a subunit of RNA polymerase III initiation factor TFIIIB, in transcription and tRNA processing. Mol. Cell Biol. 22: 3264-75.
- 4. Huang, Y., et al. 2003. The fission yeast TFIIB-related factor limits RNA polymerase III to a TATA-dependent pathway of TBP recruitment. Nucleic Acids Res. 31: 2108-16.
- Hu P., et al. 2004. CK2 phosphorylation of Bdp1 executes cell cycle-specific RNA polymerase III transcription repression. Mol. Cell 16: 81-92.
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CHROMOSOMAL LOCATION

Genetic locus: BRF2 (human) mapping to 8p11.23; Brf2 (mouse) mapping to 8 A2.

SOURCE

BRF2 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of BRF2 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.

Blocking peptide available for competition studies, sc-27201 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

BRF2 (C-20) is recommended for detection of BRF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

BRF2 (C-20) is also recommended for detection of BRF2 in additional species, including equine and porcine.

Suitable for use as control antibody for BRF2 siRNA (h): sc-106763, BRF2 siRNA (m): sc-141744, BRF2 shRNA Plasmid (h): sc-106763-SH, BRF2 shRNA Plasmid (m): sc-141744-SH, BRF2 shRNA (h) Lentiviral Particles: sc-106763-V and BRF2 shRNA (m) Lentiviral Particles: sc-141744-V.

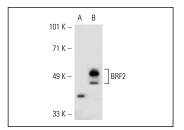
Molecular Weight of BRF2: 50 kDa.

Positive Controls: BRF2 (h): 293 Lysate: sc-111135.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



BRF2 (C-20): sc-27201. Western blot analysis of BRF2 expression in non-transfected: sc-110760 (A) and human BRF2 transfected: sc-111135 (B) 293 whole cell Ivsates.

PROTOCOLS

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