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SANTA CRUZ BIOTECHNOLOGY, INC.

BPTF siRNA (m): sc-141734

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

1. Jordan-Sciutto, K.L., et al. 2000. Fetal Alz-50 clone 1, a novel zinc-finger protein, binds a specific DNA sequence and acts as a transcriptional regulator. J. Biol. Chem. 274: 35262-35268.
2. Jordan-Sciutto, K.L., et al. 2000. Fetal Alz-50 clone 1 (FAC1) protein interacts with the Myc-associated zinc-finger protein (ZF87/MAZ) and alters its transcriptional activity. Biochemistry 39: 3206-3215.
3. Strachan, G.D., et al. 2004. Fetal Alz-50 clone 1 interacts with the human orthologue of the kelch-like Ech-associated protein. Biochemistry 43: 12113-12122.
4. Olsen, J.V., et al. 2006. Global, *in vivo,* and site-specific phosphorylation dynamics in signaling networks. Cell 127: 635-648.
5. Wysocka, J., et al. 2006. A PHD finger of NURF couples histone H3 lysine 4 trimethylation with chromatin remodelling. Nature 442: 86-90.
6. Li, H., et al. 2006. Molecular basis for site-specific read-out of histone H3K4me3 by the BPTF PHD finger of NURF. Nature 442: 91-95.
7. Matsuoka, S., et al. 2007. ATM and ATR substrate analysis reveals extensive protein networks responsive to DNA damage. Science 316: 1160-1166.

CHROMOSOMAL LOCATION

Genetic locus: Bptf (mouse) mapping to 11 E1.

PRODUCT

BPTF siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see BPTF shRNA Plasmid (m): sc-141734-SH and BPTF shRNA (m) Lentiviral Particles: sc-141734-V as alternate gene silencing products.

For independent verification of BPTF (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-141734A, sc-141734B and sc-141734C.

PROTOCOLS

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

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

BPTF siRNA (m) is recommended for the inhibition of BPTF expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor BPTF gene expression knockdown using RT-PCR Primer: BPTF (m)-PR: sc-141734-PR (20 µl, 599 bp). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

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