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- Expressversand

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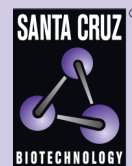
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Brpf1 siRNA (m): sc-141752

BACKGROUND

Peregrin, also called Brpf1 or BR140, is a 1,214 amino acid bromodomain and PHD finger-containing protein. Localized to the nucleus and expressed ubiquitously with the highest levels of expression in testis and spermatogonia, Peregrin is a zinc-finger protein that is thought to be a transcriptional activator. Peregrin contains one C-terminal PWWP domain and, because of its similarity with transcriptional coactivators such as TAF II p250, is thought to be a DNA-binding protein. The gene encoding Peregrin is disrupted in myeloid leukemia, suggesting a possible role in carcinogenesis. Due to alternative splicing, two isoforms of the Peregrin protein exist.

REFERENCES

1. Thompson, K.A., et al. 1994. BR140, a novel zinc-finger protein with homology to the TAF250 subunit of TFIID. *Biochem. Biophys. Res. Commun.* 198: 1143-1152.
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3. Gregorini, A., et al. 1997. Gene BR140, which is related to AF10 and AF17, maps to chromosome band 3p25. *Genes Chromosomes Cancer* 17: 269-272.
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6. Stec, I., et al. 2000. The PWWP domain: a potential protein-protein interaction domain in nuclear proteins influencing differentiation? *FEBS Lett.* 473: 1-5.
7. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602410. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Brpf1 (mouse) mapping to 6 E3.

PRODUCT

Brpf1 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Brpf1 shRNA Plasmid (m): sc-141752-SH and Brpf1 shRNA (m) Lentiviral Particles: sc-141752-V as alternate gene silencing products.

For independent verification of Brpf1 (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-141752A, sc-141752B and sc-141752C.

RESEARCH USE

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

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 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

Brpf1 siRNA (m) is recommended for the inhibition of Brpf1 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 μ M in 66 μ l. 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 Brpf1 gene expression knockdown using RT-PCR Primer: Brpf1 (m)-PR: sc-141752-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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