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RPRD1B siRNA (m): sc-141877

BACKGROUND

RPRD1B (regulation of nuclear pre-mRNA domain-containing protein 1B), also known as cell cycle-related and expression-elevated protein in tumor (CREPT), is a 326 amino acid protein that belongs in the UPF0400 (RTT103) family. RPRD1B contains one CID domain, which may indicate a possible role in mRNA processing. The gene that encodes RPRD1B maps to human chromosome 20 which consists of approximately 63 million bases and 600 genes, and represents about 2% of human DNA. Chromosome 20 contains a region with numerous genes expressed in the epididymis, which are thought to be important for seminal production. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20.

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CHROMOSOMAL LOCATION

Genetic locus: Rprdb (mouse) mapping to 2 H1.

PROTOCOLS

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

PRODUCT

RPRD1B 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 RPRD1B shRNA Plasmid (m): sc-141877-SH and RPRD1B shRNA (m) Lentiviral Particles: sc-141877-V as alternate gene silencing products.

For independent verification of RPRD1B (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-141877A, sc-141877B and sc-141877C.

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

RPRD1B siRNA (m) is recommended for the inhibition of RPRD1B 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 RPRD1B gene expression knockdown using RT-PCR Primer: RPRD1B (m)-PR: sc-141877-PR (20 μ l). 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.