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# PNRC1 siRNA (m): sc-152361

## BACKGROUND

PNRC1 (proline-rich nuclear receptor coactivator 1), also known as B4-2, PRR2, PROL2 or PNAS-145, is a 327 amino acid proline-rich protein that participates in protein binding activities and may play a role in signal transduction. Belonging to the PNRC family and the PNRC1 subfamily, PNRC1 contains a potential N-terminal SH3-binding domain, a nuclear targeting sequence and seven SPxx or TPxx motifs. Interaction between PNRC1 and nuclear receptors, such as AR, ER $\alpha$ , ERR $\alpha$ , ERR $\gamma$ , GR, SF-1, PR, TR, RAR and RXR, is dependent on the SH3 binding motif. PNRC1 also interacts with GRB2 and functions as a nuclear receptor coactivator. Conserved in chimpanzee, bovine, mouse, rat and chicken, PNRC1 localizes to nucleus and is expressed in liver, lung, fat and NK/T cells. The gene that encodes PNRC1 maps to human chromosome 6q15.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Pnrc1 (mouse) mapping to 4 A5.

## PRODUCT

PNRC1 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see PNRC1 shRNA Plasmid (m): sc-152361-SH and PNRC1 shRNA (m) Lentiviral Particles: sc-152361-V as alternate gene silencing products.

For independent verification of PNRC1 (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-152361A, sc-152361B and sc-152361C.

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

## APPLICATIONS

PNRC1 siRNA (m) is recommended for the inhibition of PNRC1 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  $\mu$ M in 66  $\mu$ 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 PNRC1 gene expression knockdown using RT-PCR Primer: PNRC1 (m)-PR: sc-152361-PR (20  $\mu$ 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.