

NRIF2 siRNA (m): sc-150064

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. Belonging to the Krüppel C₂H₂-type zinc-finger protein family, NRIF2 (neurotrophin receptor-interacting factor 2), also known as Zfp369 (zinc finger protein 369), contains five C₂H₂-type zinc fingers, two KRAB domains and a SCAN box domain. Localizing to the cytoplasm and nucleus, NRIF2 is ubiquitously expressed. Acting as a transcriptional regulator, NRIF2 may participate in NGFR/p75^{NTR}-mediated apoptosis. Existing as two alternatively spliced isoforms, the gene encoding NRIF2 maps to mouse chromosome 13 B3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Zfp369 (mouse) mapping to 13 B3.

PRODUCT

NRIF2 siRNA (m) is a target-specific 19-25 nt siRNA 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 NRIF2 shRNA Plasmid (m): sc-150064-SH and NRIF2 shRNA (m) Lentiviral Particles: sc-150064-V as alternate gene silencing products.

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 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

NRIF2 siRNA (m) is recommended for the inhibition of NRIF2 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 NRIF2 gene expression knockdown using RT-PCR Primer: NRIF2 (m)-PR: sc-150064-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.