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LRRC58 siRNA (m): sc-149096

BACKGROUND

LRRC58 (leucine-rich repeat-containing protein 58) is a 371 amino acid protein that contains nine LRR (leucine-rich repeats). The gene that encodes LRRC58 consists of approximately 25,000 bases and maps to human chromosome 3q13.33. As one of the largest human chromosomes, chromosome 3 has the lowest rate of segmental duplication in the genome. It also contains a chemokine receptor gene group as well as a number of loci involved in multiple human cancers. There is an average gene density of 8.8 genes per Mb on chromosome 3, making it one of the more gene-poor chromosomes. Although the average gene density is low, the genes that make up chromosome 3 are larger than average and make up about 49% of the chromosome. A 13.6-cM region on 3p21.31-21.2, where a tumor suppressor gene cluster is located, is believed to be a novel locus for nasopharyngeal carcinoma.

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CHROMOSOMAL LOCATION

Genetic locus: *Lrrc58* (mouse) mapping to 16 B3.

PRODUCT

LRRC58 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 LRRC58 shRNA Plasmid (m): sc-149096-SH and LRRC58 shRNA (m) Lentiviral Particles: sc-149096-V as alternate gene silencing products.

For independent verification of LRRC58 (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-149096A, sc-149096B and sc-149096C.

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

LRRC58 siRNA (m) is recommended for the inhibition of LRRC58 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.

GENE EXPRESSION MONITORING

LRRC58 (C-4): sc-515597 is recommended as a control antibody for monitoring of LRRC58 gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor LRRC58 gene expression knockdown using RT-PCR Primer: LRRC58 (m)-PR: sc-149096-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.

PROTOCOLS

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