



Khdc1a siRNA (m): sc-146435

BACKGROUND

Khdc1a (KH homology domain-containing protein 1A), also known as Ndg1 (Nur77 downstream gene 1 protein), C88118 or AU014713, is a 166 amino acid protein that belongs to the KHDC1 family and contains one KH domain. Localizing to the cytoplasm, Khdc1a may have pro-apoptotic activity. Khdc1a becomes induced by Nur77 (Nur-related factor 1). Nur77, also designated NGFI-B, belongs to the nuclear receptor superfamily and is a growth factor inducible immediate early response gene. The gene encoding Khdc1a maps to human chromosome 1 A4. No human homology to Khdc1a exists.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Khdc1a (mouse) mapping to 1 A4.

PRODUCT

Khdc1a 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 Khdc1a shRNA Plasmid (m): sc-146435-SH and Khdc1a shRNA (m) Lentiviral Particles: sc-146435-V as alternate gene silencing products.

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.

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

Khdc1a siRNA (m) is recommended for the inhibition of Khdc1a 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 Khdc1a gene expression knockdown using RT-PCR Primer: Khdc1a (m)-PR: sc-146435-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.