



HN1L siRNA (m): sc-146059

BACKGROUND

HN1L (hematological and neurological expressed 1-like protein), also known as C16orf34 or L11, is a 190 amino acid protein that belongs to the HN1 family. Localizing to the cytoplasm as well as the nucleus, HN1L is expressed in liver, kidney, prostate, testis and uterus. HN1L gets upregulated in certain carcinomas, including squamous cell carcinoma (SCC), adenocarcinoma (AC), adenosquamous cell carcinoma (ASCC) and bronchioalveolar carcinoma (BAC), and is also expressed in breast and uterine tumors. HN1L, along with HN1, may be involved in embryo development. Existing as 2 alternatively spliced isoforms, the gene encoding HN1L maps to human chromosome 16p13.3, which encodes over 900 genes and comprises nearly 3% of the human genome. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Hn1l (mouse) mapping to 17 A3.3.

PROTOCOLS

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

PRODUCT

HN1L 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 HN1L shRNA Plasmid (m): sc-146059-SH and HN1L shRNA (m) Lentiviral Particles: sc-146059-V as alternate gene silencing products.

For independent verification of HN1L (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-146059A, sc-146059B and sc-146059C.

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

HN1L siRNA (m) is recommended for the inhibition of HN1L 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 HN1L gene expression knockdown using RT-PCR Primer: HN1L (m)-PR: sc-146059-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.