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SON siRNA (m): sc-153684

BACKGROUND

NREBP (negative regulatory element-binding protein), also known as SON, SON3, BASS1 or DBP-5, is a 2,426 amino acid nuclear speckle protein that is widely expressed, with highest expression in leukocyte and heart. NREBP binds to a specific DNA sequence upstream of the regulatory sequence of the core promoter and second enhancer of human hepatitis B virus (HBV). Through this binding, NREBP represses HBV core promoter activity, transcription of HBV genes and production of HBV virions. NREBP has sequence similarities with other DNA-binding structural proteins such as gallin, Mos and oncoproteins of the Myc family. NREBP may be involved in protecting cells from apoptosis and in pre-mRNA splicing. Ten isoforms exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Son (mouse) mapping to 16 C3.3.

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.

PRODUCT

SON 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 SON shRNA Plasmid (m): sc-153684-SH and SON shRNA (m) Lentiviral Particles: sc-153684-V as alternate gene silencing products.

For independent verification of SON (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-153684A, sc-153684B and sc-153684C.

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

SON siRNA (m) is recommended for the inhibition of SON 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 SON gene expression knockdown using RT-PCR Primer: SON (m)-PR: sc-153684-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.