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SNX32 siRNA (m): sc-153677

BACKGROUND

SNX32 (sorting nexin-32), also known as SNX6B (sorting nexin-6B), is a 403 amino acid protein that contains one PX (phox homology) domain and belongs to the sorting nexin family. Existing as two alternatively spliced isoforms, SNX32 may be involved in several stages of intracellular trafficking. The gene that encodes SNX32 consists of approximately 23,256 bases and maps to human chromosome 11q13.1. Housing over 1,400 genes and comprising nearly 4% of the human genome, chromosome 11 is considered a gene and disease association-dense chromosome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that map to chromosome 11. In addition, the blood disorders Sickle cell anemia and thalassemia are caused by mutations in the HBB gene, which is located on chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Snx32 (mouse) mapping to 19 A.

PROTOCOLS

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

PRODUCT

SNX32 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 SNX32 shRNA Plasmid (m): sc-153677-SH and SNX32 shRNA (m) Lentiviral Particles: sc-153677-V as alternate gene silencing 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

SNX32 siRNA (m) is recommended for the inhibition of SNX32 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 SNX32 gene expression knockdown using RT-PCR Primer: SNX32 (m)-PR: sc-153677-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.