

Xlr3b siRNA (m): sc-155381

BACKGROUND

Xlr3b (X-linked lymphocyte-regulated 3b), also known as Xlr3, is a 226 amino acid X-linked mouse protein that, like other X-linked proteins, plays a crucial role in mental development and proper mental functioning. Upregulated during B cell terminal differentiation, Xlr3b regulates a variety of cognitive processes and behavioral events and, when inactivated, may be involved in the pathogenesis of Turner syndrome and Alzheimer's disease. Additionally, Xlr3b is highly expressed in B cell lymphoma tissue, suggesting a role for Xlr3b in tumorigenesis. The gene encoding Xlr3b maps to mouse chromosome X and belongs to a subfamily of Xlr genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Xlr3b (mouse) mapping to X A7.3.

PRODUCT

Xlr3b siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Xlr3b shRNA Plasmid (m): sc-155381-SH and Xlr3b shRNA (m) Lentiviral Particles: sc-155381-V as alternate gene silencing products.

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

Xlr3b siRNA (m) is recommended for the inhibition of Xlr3b 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 Xlr3b gene expression knockdown using RT-PCR Primer: Xlr3b (m)-PR: sc-155381-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.