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SLY siRNA (m): sc-153611

BACKGROUND

SLY (SH3 protein expressed in lymphocytes homolog), also known as SASH3 (SAM and SH3 domain-containing protein 3), is a 380 amino acid protein that contains one SH3 domain and SAM (sterile α motif) domain, which suggests that it functions as a signaling adaptor protein. SLY is highly expressed in lymphoid tissues. The SLY gene is located within a region on human chromosome X that is associated with various immune disorders, therefore it is thought that SLY may play a role in immune pathology. X-linked immunodeficiency with hyper-IgM and X-linked lymphoproliferative syndrome are both genetically linked to the Xq26 region as well. Human chromosome X has an important role in immunology. Interestingly, females show better survival to various immune challenges than males, but are more prone to autoimmune diseases.

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CHROMOSOMAL LOCATION

Genetic locus: Sash3 (mouse) mapping to X A4.

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

SLY 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 SLY shRNA Plasmid (m): sc-153611-SH and SLY shRNA (m) Lentiviral Particles: sc-153611-V as alternate gene silencing products.

For independent verification of SLY (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-153611A, sc-153611B and sc-153611C.

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

SLY siRNA (m) is recommended for the inhibition of SLY 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 SLY gene expression knockdown using RT-PCR Primer: SLY (m)-PR: sc-153611-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.