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Slfn9 siRNA (m): sc-153592

BACKGROUND

Schlafen family members are preferentially expressed in lymphoid tissues and are differentially regulated during thymocyte maturation. Schlafen proteins function as suppressors of cell growth and are thought to play a role in the maintenance of T cell quiescence. All members of the Schlafen family contain a conserved core domain and are substantially diversified at the N terminus. Changes in Schlafen protein expression may contribute to phenotypic differences seen in thymic subsets. Slfn9 (schlafen 9) is a 910 amino acid murine protein that is the homolog of human Slfn13, an 897 amino acid protein that exists as two alternatively spliced isoforms. The gene encoding Slfn9 maps to murine chromosome 11 C.

REFERENCES

- Marrack, P. and Kappler, J. 1997. Positive selection of thymocytes bearing alpha beta T cell receptors. *Curr. Opin. Immunol.* 9: 250-255.
- Mehr, R., Perelson, A.S., Fridkis-Hareli, M. and Globerson, A. 1997. Regulatory feedback pathways in the thymus. *Immunol. Today* 18: 581-585.
- Takeuchi, T., Kuro-o, M., Miyazawa, H., Ohtsuki, Y. and Yamamoto, H. 1997. Transgenic expression of a novel thymic epithelial cell antigen stimulates aberrant development of thymocytes. *J. Immunol.* 159: 726-733.
- Schwarz, D.A., Katayama, C.D. and Hedrick, S.M. 1998. Schlafen, a new family of growth regulatory genes that affect thymocyte development. *Immunity* 9: 657-668.
- Hershberger, P.A., He, H. and McCarthy, S.A. 1998. *In vitro* thymocyte maturation is associated with reduced cellular susceptibility to Fas-mediated apoptosis. *Cell Immunol.* 185: 134-145.
- Benoist, C. and Mathis, D. 1999. T-cell development: a new marker of differentiation state. *Curr. Biol.* 9: R59-61.
- Neumann, B., Zhao, L., Murphy, K. and Gonda, T.J. 2008. Subcellular localization of the Schlafen protein family. *Biochem. Biophys. Res. Commun.* 370: 62-66.
- Bustos, O., Naik, S., Ayers, G., Casola, C., Perez-Lamigueiro, M.A., Chippindale, P.T., Pritham, E.J. and de la Casa-Esperón, E. 2009. Evolution of the Schlafen genes, a gene family associated with embryonic lethality, meiotic drive, immune processes and orthopoxvirus virulence. *Gene* 447: 1-11.

CHROMOSOMAL LOCATION

Genetic locus: Slfn9 (mouse) mapping to 11 C.

PRODUCT

Slfn9 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 Slfn9 shRNA Plasmid (m): sc-153592-SH and Slfn9 shRNA (m) Lentiviral Particles: sc-153592-V as alternate gene silencing products.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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

Slfn9 siRNA (m) is recommended for the inhibition of Slfn9 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 Slfn9 gene expression knockdown using RT-PCR Primer: Slfn9 (m)-PR: sc-153592-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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