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FCHSD1 siRNA (m): sc-145150

BACKGROUND

FCHSD1 (FCH and double SH3 domains protein 1) is a 690 amino acid protein that contains one FCH domain and two SH3 domains. FCHSD1 exists as three isoforms as a result of alternative splicing events. The gene encoding FCHSD1 maps to chromosome 5, which is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

1. Katoh, M. and Katoh, M. 2004. Identification and characterization of human FCHSD1 and FCHSD2 genes in silico. *Int. J. Mol. Med.* 13: 749-754.
2. Rauch, A. and Dörr, H.G. 2007. Chromosome 5q subtelomeric deletion syndrome. *Am. J. Med. Genet. C Semin. Med. Genet.* 145C: 372-376.
3. Villa, N., Redaelli, S., Borroni, C., Colombo, C., Roncaglia, N., Sala, E., Crosti, F., Cappellini, A. and Dalprà, L. 2007. Fetal trisomy 5 mosaicism: case report and literature review. *Am. J. Med. Genet. A* 143A: 2343-2346.
4. Shadduck, R.K., Latsko, J.M., Rossetti, J.M., Haq, B. and Abdulhaq, H. 2007. Recent advances in myelodysplastic syndromes. *Exp. Hematol.* 35: 137-143.
5. Falini, B., Nicoletti, I., Bolli, N., Martelli, M.P., Liso, A., Gorello, P., Mandelli, F., Mecucci, C. and Martelli, M.F. 2007. Translocations and mutations involving the nucleophosmin (NPM1) gene in lymphomas and leukemias. *Haematologica* 92: 519-532.
6. Kristoffersen, K.E. 2008. Speech and language development in cri du chat syndrome: a critical review. *Clin. Linguist. Phon.* 22: 443-457.
7. Valent, P. 2008. Revealing the pathogenesis of the 5q- syndrome. *Eur. J. Clin. Invest.* 38: 539-540.
8. Buysse, K., Crepel, A., Menten, B., Pattyn, F., Antonacci, F., Veltman, J.A., Larsen, L.A., Tümer, Z., de Klein, A., van de Laar, I., Devriendt, K., Mortier, G. and Speleman, F. 2008. Mapping of 5q35 chromosomal rearrangements within a genomically unstable region. *J. Med. Genet.* 45: 672-678.
9. Azman, B.Z., Akhir, S.M., Zilfalil, B.A. and Ankathil, R. 2008. Two cases of deletion 5p syndrome: one with paternal involvement and another with atypical presentation. *Singapore Med. J.* 49: e98-e100.

CHROMOSOMAL LOCATION

Genetic locus: Fchsd1 (mouse) mapping to 18 B3.

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

FCHSD1 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 FCHSD1 shRNA Plasmid (m): sc-145150-SH and FCHSD1 shRNA (m) Lentiviral Particles: sc-145150-V as alternate gene silencing products.

For independent verification of FCHSD1 (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-145150A, sc-145150B and sc-145150C.

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

FCHSD1 siRNA (m) is recommended for the inhibition of FCHSD1 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 FCHSD1 gene expression knockdown using RT-PCR Primer: FCHSD1 (m)-PR: sc-145150-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.