



FSTL4 siRNA (h): sc-92009

BACKGROUND

FSTL4 (follistatin-like protein 4), also known as KIAA1061, is an 842 amino acid secreted protein that contains one EF-hand domain, two Ig-like (immunoglobulin-like) domains and a Kazal-like domain. Existing as three alternatively spliced isoforms, the gene encoding FSTL4 maps to human chromosome 5q31.1 and murin chromosome 11 B1.3. Chromosome 5 makes up approximately 6% of the human genome and contains 181 million base pairs, which encodes over 1,000 genes. Chromosome 5 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 caused by insertions or deletions within the TCOF1 gene located on chromosome 5. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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3. Kadmon, M., et al. 2001. Duodenal adenomatosis in familial adenomatous polyposis coli. A review of the literature and results from the heidelberg polyposis register. *Int. J. Colorectal Dis.* 16: 63-75.
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CHROMOSOMAL LOCATION

Genetic locus: FSTL4 (human) mapping to 5q31.1.

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

FSTL4 siRNA (h) 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 FSTL4 shRNA Plasmid (h): sc-92009-SH and FSTL4 shRNA (h) Lentiviral Particles: sc-92009-V as alternate gene silencing products.

For independent verification of FSTL4 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-92009A, sc-92009B and sc-92009C.

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

FSTL4 siRNA (h) is recommended for the inhibition of FSTL4 expression in human 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 FSTL4 gene expression knockdown using RT-PCR Primer: FSTL4 (h)-PR: sc-92009-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.