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CENP-S siRNA (m): sc-142269

BACKGROUND

Centromere protein S (CENP-S), also known as apoptosis-inducing TAF9-like domain-containing protein 1 (APITD1), is a 138 amino acid protein belonging to the TAF9 family. Localized exclusively to centromeres, CENP-S is a component of the CENP-CAD (nucleosome distal) complex. This complex interacts with the CENP-NAC complex in centromeres and is involved in assembly of kinetochore proteins, mitotic progression and chromosome segregation. CENP-S was found to be expressed at low levels in neuroblastoma cells, indicating a possible role in a cell death pathway. Ubiquitously expressed, CENP-S exists as three isoforms produced by alternative splicing.

REFERENCES

1. Krona, C., et al. 2004. A novel 1p36.2 located gene, APITD1, with tumour suppressive properties and a putative p53-binding domain, shows low expression in neuroblastoma tumours. *Br. J. Cancer* 91: 1119-1130.
2. Okada, M., et al. 2006. The CENP-H-I complex is required for the efficient incorporation of newly synthesized CENP-A into centromeres. *Nat. Cell Biol.* 8: 446-457.
3. Foltz, D.R., et al. 2006. The human CENP-A centromeric nucleosome-associated complex. *Nat. Cell Biol.* 8: 458-469.
4. van Gils, W., et al. 2007. Expression of APITD1 is not related to copy number changes of chromosomal region 1p36 or the prognosis of uveal melanoma. *Invest. Ophthalmol. Vis. Sci.* 48: 4919-4923.
5. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 609130. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Apitd1 (mouse) mapping to 4 E2.

PRODUCT

CENP-S siRNA (m) is a pool of 2 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 CENP-S shRNA Plasmid (m): sc-142269-SH and CENP-S shRNA (m) Lentiviral Particles: sc-142269-V as alternate gene silencing products.

For independent verification of CENP-S (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-142269A and sc-142269B.

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

CENP-S siRNA (m) is recommended for the inhibition of CENP-S 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 CENP-S gene expression knockdown using RT-PCR Primer: CENP-S (m)-PR: sc-142269-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.

PROTOCOLS

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