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SANTA CRUZ BIOTECHNOLOGY, INC.

Ribosomal Protein S11 siRNA (m): sc-152932

BACKGROUND

Ribosomes, the organelles that catalyze protein synthesis, are composed of a small subunit (40S) and a large subunit (60S) that consist of over 80 distinct ribosomal proteins. Ribosomal Protein S16, also known as RPS11, is a 146 amino acid cytoplasmic protein that belongs to the S17P ribosomal protein family. One of several components of the 40S subunit, Ribosomal Protein S11 may play a role in ribosome assembly and translation initiation. Elevated levels of Ribosomal Protein S11 may be associated with pancreatic and breast cancer, suggesting a possible role for Ribosomal Protein S11 in tumorigenesis. Like other mammalian ribosomal proteins, Ribosomal Protein S11 exists as multiple processed pseudogenes that are found throughout the genome.

REFERENCES

1. Batra, S.K., Metzgar, R.S. and Hollingsworth, M.A. 1991. Molecular cloning and sequence analysis of the human Ribosomal Protein S16. J. Biol. Chem. 266: 6830-6833.
2. Wool, I.G., Chan, Y.L. and Glück, A. 1995. Structure and evolution of mammalian ribosomal proteins. Biochem. Cell Biol. 73: 933-947.
3. Vladimirov, S.N., Ivanov, A.V., Karpova, G.G., Musolyamov, A.K., Egorov, T.A., Thiede, B., Wittmann-Liebold, B. and Otto, A. 1996. Characterization of the human small-ribosomal-subunit proteins by N-terminal and internal sequencing, and mass spectrometry. Eur. J. Biochem. 239: 144-149.
4. Kenmochi, N., Kawaguchi, T., Rozen, S., Davis, E., Goodman, N., Hudson, T.J., Tanaka, T. and Page, D.C. 1998. A map of 75 human ribosomal protein genes. Genome Res. 8: 509-523.
5. Yoshihama, M., Uechi, T., Asakawa, S., Kawasaki, K., Kato, S., Higa, S., Maeda, N., Minoshima, S., Tanaka, T., Shimizu, N. and Kenmochi, N. 2002. The human ribosomal protein genes: sequencing and comparative analysis of 73 genes. Genome Res. 12: 379-390.
6. Kapp, L.D. and Lorsch, J.R. 2004. The molecular mechanics of eukaryotic translation. Annu. Rev. Biochem. 73: 657-704.
7. Andersen, J.S., Lam, Y.W., Leung, A.K., Ong, S.E., Lyon, C.E., Lamond, A.I. and Mann, M. 2005. Nucleolar proteome dynamics. Nature 433: 77-83.
8. Yu, Y., Ji, H., Doudna, J.A. and Leary, J.A. 2005. Mass spectrometric analysis of the human 40S ribosomal subunit: native and HCV IRES-bound complexes. Protein Sci. 14: 1438-1446.
9. Ian'shina, D.D., Malygin, A.A. and Karpova, G.G. 2007. Binding of human ribosomal protein S16 with the 18S rRNA fragment 1203-1236/1521-1698. Mol. Biol. 41: 1023-1030.

CHROMOSOMAL LOCATION

Genetic locus: Rps11 (mouse) mapping to 7 B4.

PROTOCOLS

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

PRODUCT

Ribosomal Protein S11 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Ribosomal Protein S11 shRNA Plasmid (m): sc-152932-SH and Ribosomal Protein S11 shRNA (m) Lentiviral Particles: sc-152932-V as alternate gene silencing products.

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 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

Ribosomal Protein S11 siRNA (m) is recommended for the inhibition of Ribosomal Protein S11 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 µM in 66 µl. 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 Ribosomal Protein S11 gene expression knockdown using RT-PCR Primer: Ribosomal Protein S11 (m)-PR: sc-152932-PR (20 µl). 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.