



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

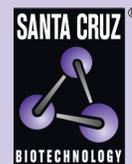
T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Ribosomal Protein L26 siRNA (m): sc-153105

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. Mammalian ribosomal proteins are encoded by multigene families that contain processed pseudogenes and one functional intron-containing gene within their coding regions. Ribosomal Protein L26 (RPL26), also known as 60S ribosomal protein L26, is a 145 amino acid protein that belongs to the ribosomal protein L24P family and is a component of the 60S subunit. Localizing primarily to cytoplasm, the gene encoding Ribosomal Protein L26 exists as various processed pseudogenes dispersed throughout the genome and maps to human chromosome 17p13.1. Overexpression of Ribosomal Protein L26 leads to activation and an increased translation of p53, induction of G₁ cell cycle arrest, and a magnification of irradiation-induced apoptosis.

REFERENCES

- Zaman, G.J. 1993. Sequence of a cDNA encoding human ribosomal protein L26 and of a cDNA probably encoding human ribosomal protein L6. *Nucleic Acids Res.* 21: 1673.
- Segade, F., Claudio, E., Hurlle, B., Ramos, S. and Lazo, P.S. 1996. Differential regulation of the murine ribosomal protein L26 gene in macrophage activation. *Life Sci.* 58: 277-285.
- 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.
- 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.
- Takagi, M., Absalon, M.J., McLure, K.G. and Kastan, M.B. 2005. Regulation of p53 translation and induction after DNA damage by Ribosomal Protein L26 and nucleolin. *Cell* 123: 49-63.
- Ofir-Rosenfeld, Y., Boggs, K., Michael, D., Kastan, M.B. and Oren, M. 2008. Mdm2 regulates p53 mRNA translation through inhibitory interactions with Ribosomal Protein L26. *Mol. Cell* 32: 180-189.
- Robledo, S., Idol, R.A., Crimmins, D.L., Ladenson, J.H., Mason, P.J. and Bessler, M. 2008. The role of human ribosomal proteins in the maturation of rRNA and ribosome production. *RNA* 14: 1918-1929.
- Sal'nikov, V.V., Mishagina, E.A., Kozlovskaya, I.B., Nikolsky, E.E. and Islamov, R.R. 2009. Immunohistochemical confirmation of localization of the Ribosomal Protein L26 in the terminal buttons of rat motor axon. *Dokl. Biol. Sci.* 427: 313-315.
- Zhang, Y., Wang, J., Yuan, Y., Zhang, W., Guan, W., Wu, Z., Jin, C., Chen, H., Zhang, L., Yang, X. and He, F. 2010. Negative regulation of HDM2 to attenuate p53 degradation by Ribosomal Protein L26. *Nucleic Acids Res.* 38: 6544-6554.

CHROMOSOMAL LOCATION

Genetic locus: Rpl26 (mouse) mapping to 11 B3.

PRODUCT

Ribosomal Protein L26 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 Ribosomal Protein L26 shRNA Plasmid (m): sc-153105-SH and Ribosomal Protein L26 shRNA (m) Lentiviral Particles: sc-153105-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 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

Ribosomal Protein L26 siRNA (m) is recommended for the inhibition of Ribosomal Protein L26 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 Ribosomal Protein L26 gene expression knockdown using RT-PCR Primer: Ribosomal Protein L26 (m)-PR: sc-153105-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.