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RBM4B siRNA (m): sc-152754

BACKGROUND

RBM4B (RNA-binding protein 4B), also known as RBM30 (RNA-binding protein 30), is a 359 amino acid protein that localizes to the nucleolus and contains one CCHC-type zinc finger and two RRM domains. Expressed ubiquitously, RBM4 interacts with Importin-12 (an association which results in the nuclear import of RBM4) and is thought to play a role in alternative splice site selection during pre-mRNA processing. The gene encoding RBM4B maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

1. Scherl, A., Coute, Y., Deon, C., Calle, A., Kindbeiter, K., Sanchez, J.C., Greco, A., Hochstrasser, D. and Diaz, J.J. 2002. Functional proteomic analysis of human nucleolus. *Mol. Biol. Cell* 13: 4100-4109.
2. Lai, M.C., Kuo, H.W., Chang, W.C. and Tarn, W.Y. 2003. A novel splicing regulator shares a nuclear import pathway with SR proteins. *EMBO J.* 22: 1359-1369.
3. Markus, M.A. and Morris, B.J. 2006. Lark is the splicing factor RBM4 and exhibits unique subnuclear localization properties. *DNA Cell Biol.* 25: 457-464.
4. Pfuhl, T., Mamiani, A., Dürr, M., Welter, S., Stieber, J., Ankara, J., Liss, M., Dobner, T., Schmitt, A., Falkai, P., Kremmer, E., Jung, V., Barth, S. and Grässer, F.A. 2008. The LARK/RBM4a protein is highly expressed in cerebellum as compared to cerebrum. *Neurosci. Lett.* 444: 11-15.
5. Markus, M.A. and Morris, B.J. 2009. RBM4: a multifunctional RNA-binding protein. *Int. J. Biochem. Cell Biol.* 41: 740-743.
6. Kazan, H., Ray, D., Chan, E.T., Hughes, T.R. and Morris, Q. 2010. RNAcontext: a new method for learning the sequence and structure binding preferences of RNA-binding proteins. *PLoS Comput. Biol.* 6: e1000832.

CHROMOSOMAL LOCATION

Genetic locus: Rbm4b (mouse) mapping to 19 A.

PRODUCT

RBM4B 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 RBM4B shRNA Plasmid (m): sc-152754-SH and RBM4B shRNA (m) Lentiviral Particles: sc-152754-V as alternate gene silencing products.

For independent verification of RBM4B (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-152754A, sc-152754B and sc-152754C.

PROTOCOLS

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

RBM4B siRNA (m) is recommended for the inhibition of RBM4B 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 RBM4B gene expression knockdown using RT-PCR Primer: RBM4B (m)-PR: sc-152754-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.