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UBN-2 siRNA (m): sc-142781

BACKGROUND

Epstein-Barr virus (EBV)-associated lymphoproliferative disorders frequently develop in patients with AIDS. The major target tissues for EBV infection are B lymphocytes and epithelial cells of the oropharyngeal zone. The protein product of the EBV BZLF1 early gene, EB1, interacts with viral and cellular promoters and transcription factors, thereby modulating the reactivation of EBV infection. The EB1 interacting protein, ubinuclein (UBN-1), is a product of the UBN1 gene and is expressed in the nucleus of human epidermis. The amino terminus of ubinuclein contains the nuclear localization signal whereas the central domain is responsible for the interaction of UBN-1 with the DNA-binding domain of EB1. UBN-2 (Ubinuclein-2), also designated D130059P03Rik in mouse, is a 1,347 amino acid protein that is related to UBN-1 and is phosphorylated upon DNA damage, probably by ATR or Atm. There are two isoforms of UBN-2 that are produced as a result of alternative splicing events.

REFERENCES

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2. Stubbert, B.D. and Marks, T.J. 2007. Mechanistic investigation of intramolecular aminoalkene and aminoalkyne hydroamination/cyclization catalyzed by highly electrophilic, tetravalent constrained geometry 4d and 5f complexes. Evidence for an M-N σ -bonded insertive pathway. *J. Am. Chem. Soc.* 129: 6149-6167.
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4. Balaji, S., et al. 2009. HPC2 and ubinuclein define a novel family of histone chaperones conserved throughout eukaryotes. *Mol. Biosyst.* 5: 269-275.
5. Banumathy, G., et al. 2009. Human UBN1 is an ortholog of yeast HPC2p and has an essential role in the HIRA/ASF1a chromatin-remodeling pathway in senescent cells. *Mol. Cell. Biol.* 29: 758-770.
6. Meyer, R.E., et al. 2010. A single mutation results in diploid gamete formation and parthenogenesis in a *Drosophila* yemanuclein- α meiosis I defective mutant. *BMC Genet.* 11: 104.
7. Gruffat, H., et al. 2011. The NACos protein ubinuclein negatively regulates the productive cycle of Epstein-Barr virus in epithelial cells. *J. Virol.* 85: 784-794.

CHROMOSOMAL LOCATION

Genetic locus: Ubn2 (mouse) mapping to 6 B1.

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

UBN-2 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 UBN-2 shRNA Plasmid (m): sc-142781-SH and UBN-2 shRNA (m) Lentiviral Particles: sc-142781-V as alternate gene silencing products.

For independent verification of UBN-2 (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-142781A, sc-142781B and sc-142781C.

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

UBN-2 siRNA (m) is recommended for the inhibition of UBN-2 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 UBN-2 gene expression knockdown using RT-PCR Primer: UBN-2 (m)-PR: sc-142781-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.