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# WIZ siRNA (m): sc-155352

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. WIZ (widely interspaced zinc-finger motifs), also known as ZNF803, is a 1,651 amino acid nuclear protein that belongs to the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family and consists of 11 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. It is suggested that WIZ may link EHMT1 and EHMT2 histone methyltransferases to the CtBP corepressor machinery and may be involved in EHMT1-EHMT2 heterodimer formation and stabilization. Two isoforms exist due to alternative splicing events.

## REFERENCES

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- Matsumoto, K., Ishii, N., Yoshida, S., Shiosaka, S., Wanaka, A. and Tohyama, M. 1998. Molecular cloning and distinct developmental expression pattern of spliced forms of a novel zinc finger gene *wiz* in the mouse cerebellum. *Brain Res. Mol. Brain Res.* 61: 179-189.
- Levenson, V.V., Lausch, E., Kirschling, D.J., Broude, E.V., Davidovich, I.A., Libants, S., Fedosova, V. and Roninson, I.B. 1999. A combination of genetic suppressor elements produces resistance to drugs inhibiting DNA replication. *Somat. Cell Mol. Genet.* 25: 9-26.

## CHROMOSOMAL LOCATION

Genetic locus: *Wiz* (mouse) mapping to 17 B1.

## PRODUCT

WIZ 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see WIZ shRNA Plasmid (m): sc-155352-SH and WIZ shRNA (m) Lentiviral Particles: sc-155352-V as alternate gene silencing products.

For independent verification of WIZ (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-155352A, sc-155352B and sc-155352C.

## 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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

WIZ siRNA (m) is recommended for the inhibition of WIZ 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  $\mu$ M in 66  $\mu$ 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 WIZ gene expression knockdown using RT-PCR Primer: WIZ (m)-PR: sc-155352-PR (20  $\mu$ 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](http://www.scbt.com) for detailed protocols and support products.