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WDR82 siRNA (m): sc-155322

BACKGROUND

WDR82 (WD repeat-containing protein 82), also known as TMEM113 (transmembrane protein 113) or WDR82A, is a 313 amino acid protein that contains six WD repeats and belongs to the WD repeat SWD2 family. Localized to the nucleus, WDR82 is an integral component of the Set1 methyltransferase complex that contains several proteins, including Set1A and Set1B, and functions to specifically methylate the Lysine 4 (Lys 4) residue of Histone H3. The methyltransferase activity of the Set1 complex is crucial for proper H3-mediated assembly of an active chromatin structure that allows transcription to occur. Due its involvement in the Set1 complex, WDR82 may play an essential role in chromatin-modifying events that are permissive to transcription.

REFERENCES

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2. Lee, J.H. and Skalnik, D.G. 2005. CpG-binding protein (CXXC finger protein 1) is a component of the mammalian Set1 histone H3-Lys4 methyltransferase complex, the analogue of the yeast Set1/COMPASS complex. *J. Biol. Chem.* 280: 41725-41731.
3. Higa, L.A., Wu, M., Ye, T., Kobayashi, R., Sun, H. and Zhang, H. 2006. CUL4-DDB1 ubiquitin ligase interacts with multiple WD40-repeat proteins and regulates histone methylation. *Nat. Cell Biol.* 8: 1277-1283.
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5. Lee, J.H. and Skalnik, D.G. 2008. Wdr82 is a C-terminal domain-binding protein that recruits the Setd1A Histone H3-Lys4 methyltransferase complex to transcription start sites of transcribed human genes. *Mol. Cell. Biol.* 28: 609-618.

CHROMOSOMAL LOCATION

Genetic locus: Wdr82 (mouse) mapping to 9 F1.

PRODUCT

WDR82 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 WDR82 shRNA Plasmid (m): sc-155322-SH and WDR82 shRNA (m) Lentiviral Particles: sc-155322-V as alternate gene silencing products.

For independent verification of WDR82 (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-155322A, sc-155322B and sc-155322C.

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

WDR82 siRNA (m) is recommended for the inhibition of WDR82 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 WDR82 gene expression knockdown using RT-PCR Primer: WDR82 (m)-PR: sc-155322-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.