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TADA2B siRNA (h): sc-156169

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. TADA2B (transcriptional adapter 2- β), also known as ADA2B, is a 420 amino acid protein that contains one SANT domain (a protein-protein interaction module) and one ZZ-type zinc finger (a protein/DNA-binding motif). Localized to the nucleus, TADA2B functions as an activator for Pax-5-dependent transcription and interacts with both Brg-1 and BAF57, two proteins that assist in Pax-5-dependent transcriptional activation. Via its interactions with Brg-1 and BAF57, TADA2B helps to coordinate the histone acetyltransferase (HAT) complex and links activation factors to basal transcription machinery. Three isoforms of TADA2B exist due to alternative splicing events.

REFERENCES

1. Ponting, C.P., Blake, D.J., Davies, K.E., Kendrick-Jones, J. and Winder, S.J. 1996. ZZ and TAZ: new putative zinc fingers in dystrophin and other proteins. *Trends Biochem. Sci.* 21: 11-13.
2. Aasland, R., Stewart, A.F. and Gibson, T. 1996. The SANT domain: a putative DNA-binding domain in the SWI-SNF and ADA complexes, the transcriptional co-repressor N-CoR and TFIIB. *Trends Biochem. Sci.* 21: 87-88.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608790. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Barlev, N.A., Emelyanov, A.V., Castagnino, P., Zegerman, P., Bannister, A.J., Sepulveda, M.A., Robert, F., Tora, L., Kouzarides, T., Birshtein, B.K. and Berger, S.L. 2003. A novel human Ada2 homologue functions with Gcn5 or Brg1 to coactivate transcription. *Mol. Cell. Biol.* 23: 6944-6957.
5. Qi, D., Larsson, J. and Mannervik, M. 2004. *Drosophila* Ada2b is required for viability and normal Histone H3 acetylation. *Mol. Cell. Biol.* 24: 8080-8089.
6. Boyer, L.A., Latek, R.R. and Peterson, C.L. 2004. The SANT domain: a unique histone-tail-binding module? *Nat. Rev. Mol. Cell Biol.* 5: 158-163.
7. Pankotai, T., Komonyi, O., Bodai, L., Ujfaludi, Z., Muratoglu, S., Ciurciu, A., Tora, L., Szabad, J. and Boros, I. 2005. The homologous *Drosophila* transcriptional adaptors ADA2a and ADA2b are both required for normal development but have different functions. *Mol. Cell. Biol.* 25: 8215-8227.

CHROMOSOMAL LOCATION

Genetic locus: TADA2B (human) mapping to 4p16.1.

PRODUCT

TADA2B siRNA (h) 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 TADA2B shRNA Plasmid (h): sc-156169-SH and TADA2B shRNA (h) Lentiviral Particles: sc-156169-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

TADA2B siRNA (h) is recommended for the inhibition of TADA2B expression in human 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.

GENE EXPRESSION MONITORING

TADA2B (MB-56): sc-130479 is recommended as a control antibody for monitoring of TADA2B gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor TADA2B gene expression knockdown using RT-PCR Primer: TADA2B (h)-PR: sc-156169-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.