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SANTA CRUZ BIOTECHNOLOGY, INC.

ARID1A shRNA (h) Lentiviral Particles: sc-43628-V

BACKGROUND

The Swi-Snf complex is involved in the activation of transcription via the remodeling of nucleosome structure in an ATP-dependent manner. Brm (also designated Snf2α) and Brg-1 (also designated Snf2β) are the ATPase subunits of the mammalian Swi-Snf complex. Brm, Brg-1, Ini1 (integrase interactor 1, also designated Snf5), BAF155 (also designated SRG3) and BAF170 are thought to comprise the functional core of the SWI-SNF complex. Addition of Ini1, BAF155 and BAF170 to Brg-1 appears to increase remodeling activity. Other complex subunits, such as BAF250a (p270 or ARID1A) and BAF250b (ARID1B), are thought to play regulatory roles.

REFERENCES

1. Muchardt, C. and Yaniv, M. 1993. A human homologue of *Saccharomyces cerevisiae* Snf2/Swi2 and *Drosophila* Brm genes potentiates transcriptional activation by the glucocorticoid receptor. EMBO J. 12: 4279-4290.
2. Khavari, P.A., et al. 1993. Brg-1 contains a conserved domain of the Swi2/Snf2 family necessary for normal mitotic growth and transcription. Nature 366: 170-174.
3. Imbalzano, A.N., et al. 1996. Nucleosome disruption by human Swi/Snf is maintained in the absence of continued ATP hydrolysis. J. Biol. Chem. 271: 20726-20733.
4. Dallas, P.B., et al. 1998. p300/CREB binding protein-related protein p270 is a component of mammalian Swi/Snf complexes. Mol. Cell. Biol. 18: 3596-3603.
5. Phelan, M.L., et al. 1999. Reconstitution of a core chromatin remodeling complex from Swi/Snf subunits. Mol. Cell 3: 247-253.
6. Dallas, P.B., et al. 2000. The human Swi/Snf complex protein p270 is an ARID family member with non-sequence-specific DNA binding activity. Mol. Cell. Biol. 20: 3137-3146.

CHROMOSOMAL LOCATION

Genetic locus: ARID1A (human) mapping to 1p36.11.

PRODUCT

ARID1A shRNA (h) Lentiviral Particles is a pool of concentrated, transduction-ready viral particles containing 3 target-specific constructs that encode 19-25 nt (plus hairpin) shRNA designed to knock down gene expression. Each vial contains 200 µl frozen stock containing 1.0 x 10^6 infectious units of virus (IFU) in Dulbecco's Modified Eagle's Medium with 25 mM HEPES pH 7.3. Suitable for 10-20 transductions. Also see ARID1A siRNA (h): sc-43628 and ARID1A shRNA Plasmid (h): sc-43628-SH as alternate gene silencing products.

STORAGE

Store lentiviral particles at -80° C. Stable for at least one year from the date of shipment. Once thawed, particles can be stored at 4° C for up to one week. Avoid repeated freeze thaw cycles.

APPLICATIONS

ARID1A shRNA (h) Lentiviral Particles is recommended for the inhibition of ARID1A expression in human cells.

SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200 µl frozen viral stock containing 1.0 x 10^6 infectious units of virus (IFU); contains an shRNA construct encoding a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA.

GENE EXPRESSION MONITORING

ARID1A (C-7): sc-373784 is recommended as a control antibody for monitoring of ARID1A 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 (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor ARID1A gene expression knockdown using RT-PCR Primer: ARID1A (h)-PR: sc-43628-PR (20 µl, 575 bp). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

BIOSAFETY

Lentiviral particles can be employed in standard Biosafety Level 2 tissue culture facilities (and should be treated with the same level of caution as with any other potentially infectious reagent). Lentiviral particles are replication-incompetent and are designed to self-inactivate after transduction and integration of shRNA constructs into genomic DNA of target cells.

RESEARCH USE

The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product and all replicates and derivatives for research purposes conducted by the buyer in his laboratory only (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party, or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

PROTOCOLS

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