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α N-catenin shRNA (m) Lentiviral Particles: sc-43508-V

BACKGROUND

α -catenins are a group of proteins associated with cadherin cell-cell adhesion molecules and play indispensable roles in the function of the cadherins. α N-catenin is a linker between cadherin adhesion receptors and the Actin cytoskeleton and is essential for stabilizing dendritic spines in rodent hippocampal neurons in culture. A deletion in this protein causes cerebellar and hippocampal lamination defects and impaired startle reaction. α E- and α N-catenin appear to co-localize in cell bodies of neurons in dorsal root ganglia. In mice, α N-catenin was found to occur at the roof plate of the mesencephalon and diencephalon, coinciding with Wnt-1 expression.

REFERENCES

- Shimamura, K., et al. 1994. Wnt-1-dependent regulation of local E-cadherin and α N-catenin expression in the embryonic mouse brain. *Development* 120: 2225-2234.
- Hirano, S., et al. 1994. Differential expression of α N-catenin and N-cadherin during early development of chicken embryos. *Int. J. Dev. Biol.* 38: 379-384.
- Uchida, N., et al. 1994. Mouse α N-catenin: two isoforms, specific expression in the nervous system, and chromosomal localization of the gene. *Dev. Biol.* 163: 75-85.
- Shibuya, Y., et al. 1996. α N-catenin expression in the normal and regenerating chick sciatic nerve. *J. Neurocytol.* 25: 615-624.
- Seto, A., et al. 1997. Alteration of E-cadherin and α N-catenin immunoreactivity in the mouse spinal cord following peripheral axotomy. *J. Neuropathol. Exp. Neurol.* 56: 1182-1190.

CHROMOSOMAL LOCATION

Genetic locus: Ctnna2 (mouse) mapping to 6 C3.

PRODUCT

α N-catenin shRNA (m) 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 μ l frozen stock containing 1.0×10^6 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 α N-catenin siRNA (m): sc-43508 and α N-catenin shRNA Plasmid (m): sc-43508-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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

α N-catenin shRNA (m) Lentiviral Particles is recommended for the inhibition of α N-catenin expression in mouse cells.

SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200 μ l frozen viral stock containing 1.0×10^6 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

α N-catenin (C-19): sc-1498 is recommended as a control antibody for monitoring of α N-catenin 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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor α N-catenin gene expression knockdown using RT-PCR Primer: α N-catenin (m)-PR: sc-43508-PR (20 μ l, 523 bp). Annealing temperature for the primers should be $55-60^\circ$ C and the extension temperature should be $68-72^\circ$ 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.