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# SNAP 29 siRNA (m): sc-153646

## BACKGROUND

SNAP 29 (synaptosomal-associated protein, 29 kDa), also known as CEDNIK, is a 258 amino acid protein that localizes to the membrane and the cytoplasm, as well as to the cell junction, and contains one t-SNARE coiled-coil homology domain. Expressed in liver, heart, brain, kidney, placenta, lung, spleen, pancreas and skeletal muscle, SNAP 29 binds tightly to Syntaxins and, via this binding, is involved in membrane trafficking events. Defects in the gene encoding SNAP 29 are the cause of CEDNIK syndrome, a neurocutaneous syndrome that is associated with cerebral dysgenesis, neuropathy, ichthyosis and palmoplantar keratoderma. The gene encoding SNAP 29 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia.

## REFERENCES

1. Steegmaier, M., et al. 1998. Three novel proteins of the Syntaxin/SNAP 25 family. *J. Biol. Chem.* 273: 34171-34179.
2. Hohenstein, A.C., et al. 2001. SNAP 29 is a promiscuous Syntaxin-binding SNARE. *Biochem. Biophys. Res. Commun.* 285: 167-171.
3. Rotem-Yehudar, R., et al. 2001. Association of Insulin-like growth factor 1 receptor with EHD1 and SNAP 29. *J. Biol. Chem.* 276: 33054-33060.
4. Saito, T., et al. 2001. Polymorphism in SNAP29 gene promoter region associated with schizophrenia. *Mol. Psychiatry* 6: 193-201.
5. Su, Q., et al. 2001. SNAP 29: a general SNARE protein that inhibits SNARE disassembly and is implicated in synaptic transmission. *Proc. Natl. Acad. Sci. USA* 98: 14038-14043.
6. Sprecher, E., et al. 2005. A mutation in SNAP 29, coding for a SNARE protein involved in intracellular trafficking, causes a novel neurocutaneous syndrome characterized by cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma. *Am. J. Hum. Genet.* 77: 242-251.
7. Pan, P.Y., et al. 2005. SNAP 29-mediated modulation of synaptic transmission in cultured hippocampal neurons. *J. Biol. Chem.* 280: 25769-25779.

## CHROMOSOMAL LOCATION

Genetic locus: Snap29 (mouse) mapping to 16 A3.

## PRODUCT

SNAP 29 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 SNAP 29 shRNA Plasmid (m): sc-153646-SH and SNAP 29 shRNA (m) Lentiviral Particles: sc-153646-V as alternate gene silencing products.

For independent verification of SNAP 29 (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-153646A, sc-153646B and sc-153646C.

## 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

SNAP 29 siRNA (m) is recommended for the inhibition of SNAP 29 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 SNAP 29 gene expression knockdown using RT-PCR Primer: SNAP 29 (m)-PR: sc-153646-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.