SANTA CRUZ BIOTECHNOLOGY, INC.

LNX3 siRNA (h): sc-78265

BACKGROUND

The eukaryotic PDZ domain is a multifunctional protein-protein interacting motif that is found in a variety of proteins and is involved in both the clustering of signaling molecules and the organization of protein networks. LNX3 (ligand of Numb protein X 3), also known as PDZRN3 (PDZ domain containing ring finger 3) or SEMCAP3 (semaphorin cytoplasmic domain-associated protein 3), is a 1,066 amino acid protein that contains one TRAF-type zinc finger, one RING-type zinc finger and two PDZ domains. Expressed in a variety of tissues, LNX3 interacts with neuroligin 1 and ephrin-B2 and may exhibit tumor suppressive activity in ovarian serous papillary tumors. Multiple isoforms of LNX3 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PDZRN3 (human) mapping to 3p13.

PROTOCOLS

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

PRODUCT

LNX3 siRNA (h) 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see LNX3 shRNA Plasmid (h): sc-78265-SH and LNX3 shRNA (h) Lentiviral Particles: sc-78265-V as alternate gene silencing products.

For independent verification of LNX3 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-78265A, sc-78265B and sc-78265C.

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 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

LNX3 siRNA (h) is recommended for the inhibition of LNX3 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 µM in 66 µl. 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 LNX3 gene expression knockdown using RT-PCR Primer: LNX3 (h)-PR: sc-78265-PR (20 µl). 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.