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RIPX siRNA (m): sc-152978

BACKGROUND

RIPX (Rap 2-interacting protein x), also known as RUFY3 (RUN and FYVE domain containing 3) or Singar1, is a 469 amino acid protein that contains one RUN (RPIP8, unc-14 and NESCA) domain and is highly expressed in brain tissue. Localized to both the cell projection and to the lamellipodia and filopodia of growth cones, RIPX is thought to play a role neuronal development, specifically by mediating the formation of single axons, a process that maintains optimal neuronal polarity. RIPX interacts with PI 3-kinase p110 α and PI 3-kinase p85 α and, via this interaction, may be able to inhibit the formation of additional axons during neuronal maturation. Two isoforms of RIPX (one of which is partially phosphorylated) exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ruffy3 (mouse) mapping to 5 E1.

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.

PRODUCT

RIPX 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see RIPX shRNA Plasmid (m): sc-152978-SH and RIPX shRNA (m) Lentiviral Particles: sc-152978-V as alternate gene silencing products.

For independent verification of RIPX (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-152978A, sc-152978B and sc-152978C.

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

RIPX siRNA (m) is recommended for the inhibition of RIPX 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 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.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor RIPX gene expression knockdown using RT-PCR Primer: RIPX (m)-PR: sc-152978-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.