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Rabaptin-5 β siRNA (m): sc-155957

BACKGROUND

Rabaptin-5 β , also known as RABEP2 (Rab GTPase-binding effector protein 2), is a 569 amino acid protein that belongs to the rabaptin family. Rabaptin-5 β interacts with the GTP-bound form of Rab 5, a small GTPase involved in signal transduction and mitogenesis. Both Rabaptin-5 β and RABAPTIN-5 proteins contain coiled-coil repeats and are recruited on the endosomal membrane by Rab 5 for endocytic membrane docking and fusion in the presence of GTP. Rabaptin-5 β plays a role in membrane trafficking and in homotypic early endosome fusion. Rabaptin-5 β forms a heterodimer with Rabex-5, which then binds Rab 5A that has been activated by GTP-binding. Existing as two alternatively spliced isoforms, the Rabaptin-5 β gene is conserved in canine, bovine, mouse, rat and zebrafish, and maps to human chromosome 16p11.2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rabep2 (mouse) mapping to 7 F3.

PRODUCT

Rabaptin-5 β 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 Rabaptin-5 β shRNA Plasmid (m): sc-155957-SH and Rabaptin-5 β shRNA (m) Lentiviral Particles: sc-155957-V as alternate gene silencing products.

For independent verification of Rabaptin-5 β (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-155957A, sc-155957B and sc-155957C.

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

Rabaptin-5 β siRNA (m) is recommended for the inhibition of Rabaptin-5 β 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 Rabaptin-5 β gene expression knockdown using RT-PCR Primer: Rabaptin-5 β (m)-PR: sc-155957-PR (20 μ 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 for detailed protocols and support products.