SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM35 siRNA (m): sc-76749

BACKGROUND

TRIM35 (tripartite motif-containing 35), also known as HLS5 (hemopoietic lineage switch protein 5) or MAIR (macrophage-derived apoptosis-inducing RBCC protein), is a widely expressed 493 amino acid protein that belongs to the TRIM/RBCC (Ring finger, B box, coiled-coil) family. TRIM35 contains a B box-type zinc finger, a coiled-coil domain, a SPRY domain and a RING-type zinc finger; a motif that has zinc-chelating activity and is involved in mediating protein-protein and protein-DNA interactions. Localizing to cytoplasmic granules and punctate nuclear bodies, TRIM35 is believed to play a role in the cell death mechanism. The forced expression of TRIM35 in HeLa cells results in the inhibition of tumorigenicity, cell growth and clonogenicity. In addition, the gene encoding TRIM35 localizes to a region of chromosome 8p21.2 that has been implicated in a number of leukemias and solid tumors. This suggests that TRIM35 may function as a tumor suppressor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Trim35 (mouse) mapping to 14 D1.

PROTOCOLS

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

PRODUCT

TRIM35 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see TRIM35 shRNA Plasmid (m): sc-76749-SH and TRIM35 shRNA (m) Lentiviral Particles: sc-76749-V as alternate gene silencing products.

For independent verification of TRIM35 (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-76749A, sc-76749B and sc-76749C.

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

TRIM35 siRNA (m) is recommended for the inhibition of TRIM35 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 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 TRIM35 gene expression knockdown using RT-PCR Primer: TRIM35 (m)-PR: sc-76749-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.