SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM27 siRNA (m): sc-61713

BACKGROUND

TRIM27, also designated Ret finger protein (RFP), is a member of the tripartite motif family, which is characterized by a conserved RING finger, a B-box and a coiled-coil domain (together designated RBCC). TRIM27 becomes oncogenic when its RBCC is fused with the tyrosine kinase domain of the RET protein. Normally, TRIM27 functions as a transcriptional repressor and associates with enhancer of polycomb (EPC1) and Mi-2β, a main component of the nucleosome remodeling and deacetylase (NuRD) complex. TRIM27 is expressed at specific stages of spermatogenesis and in various tissues and can be localized to either the cytoplasm or nucleus depending on the cell type.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Trim27 (mouse) mapping to 13 A3.1.

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

TRIM27 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 TRIM27 shRNA Plasmid (m): sc-61713-SH and TRIM27 shRNA (m) Lentiviral Particles: sc-61713-V as alternate gene silencing products.

For independent verification of TRIM27 (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-61713A, sc-61713B and sc-61713C.

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

TRIM27 siRNA (m) is recommended for the inhibition of TRIM27 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 TRIM27 gene expression knockdown using RT-PCR Primer: TRIM27 (m)-PR: sc-61713-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.