SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM62 siRNA (h): sc-88655

BACKGROUND

TRIM62 (tripartite motif-containing 62) is a 475 amino acid protein that belongs to the TRIM/RBCC (Ring finger, B box, coiled-coil) family. TRIM62 contains one B box-type zinc finger, one SPRY domain and one RING-type zinc finger; a motif that has zinc-chelating activity and is involved in mediating protein-protein and protein-DNA interactions. As a member of the TRIM/RBCC family, TRIM62 may function in transcriptional regulation, cell transformation and carcinogenesis. In addition, TRIM62 expression can affect the entry of murine leukemia virus (MLV) and human immunodeficiency virus 1 (HIV). As is suggested by the inhibition of HIV and MLV release in TRIM62-depleted cells, TRIM62 may play a role in the cellular pathways that are essential for efficient virus release.

REFERENCES

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2. Woo, J.S., Suh, H.Y., Park, S.Y. and Oh, B.H. 2006. Structural basis for protein recognition by B30.2/SPRY domains. Mol. Cell 24: 967-976.
3. Gregory, S.G., Barlow, K.F., McLay, K.E., Kaul, R., Swarbreck, D., Dunham, A., Scott, C.E., Howe, K.L., Woodfine, K., Spencer, C.C., Jones, M.C., Gillson, C., Searle, S., Zhou, Y., Kokocinski, F., McDonald, L., et al. 2006. The DNA sequence and biological annotation of human chromosome 1. Nature 441: 315-321.
4. Uchil, P.D., Quinlan, B.D., Chan, W.T., Luna, J.M. and Mothes, W. 2008. TRIM E3 ligases interfere with early and late stages of the retroviral life cycle. PLoS Pathog. 4: e16.

CHROMOSOMAL LOCATION

Genetic locus: TRIM62 (human) mapping to 1p35.1.

PRODUCT

TRIM62 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 TRIM62 shRNA Plasmid (h): sc-88655-SH and TRIM62 shRNA (h) Lentiviral Particles: sc-88655-V as alternate gene silencing products.

For independent verification of TRIM62 (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-88655A, sc-88655B and sc-88655C.

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.

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

TRIM62 siRNA (h) is recommended for the inhibition of TRIM62 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 TRIM62 gene expression knockdown using RT-PCR Primer: TRIM62 (h)-PR: sc-88655-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.