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SANTA CRUZ BIOTECHNOLOGY, INC.

TRAP siRNA (m): sc-155973

BACKGROUND

Tartrate-resistant acid phosphatase (TRAP, ACP5) is an iron containing glycoprotein that catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. TRAP is the most basic of the acid phosphatases and is the only form not inhibited by L^+-tartrate. TRAP is a relatively minor lysosomal enzyme which may be activated in certain pathologies, such as Hodgkin's disease and B- and T-cell leukemias. Receptor activator of NFκB ligand (RANKL) plays an essential role in osteoclast differentiation and activation by increasing the expression of protease osteoclast markers such as TRAP. TRAP has collagenolytic activity and plays a major role in ligament degradation.

REFERENCES

1. Fleckenstein, E., et al. 1996. Cloning and characterization of the human tartrate-resistant acid phosphatase (TRAP) gene. Leukemia 10: 637-643.
2. Fleckenstein, E.C., et al. 2000. The human tartrate-resistant acid phosphatase (TRAP): involvement of the hemin responsive elements (HRE) in transcriptional regulation. Leuk. Lymphoma 36: 603-612.
3. Wittrant Y., et al. 2003. Regulation of osteoclast protease expression by RANKL. Biochem. Biophys. Res. Commun. 310: 774-778.
4. Capeller, B., et al. 2003. Evaluation of tartrate-resistant acid phosphatase (TRAP) 5b as serum marker of bone metastases in human breast cancer. Anticancer Res. 23: 1011-1015.
5. Dwyer, K.W., et al. 2004. Blockade of the sympathetic nervous system degrades ligament in a rat MCL model. J. Appl. Physiol. 96: 711-718.
6. Nakano, Y., et al. 2004. Eccentric localization of osteocytes expressing enzymatic activities, protein, and mRNA signals for type 5 tartrate-resistant acid phosphatase (TRAP). J. Histochem. Cytochem. 52: 1475-1482.
7. SWISS-PROT/TrEMBL (P13686). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html.

CHROMOSOMAL LOCATION

Genetic locus: Acp5 (mouse) mapping to 9 A3.

PRODUCT

TRAP 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 TRAP shRNA Plasmid (m): sc-155973-SH and TRAP shRNA (m) Lentiviral Particles: sc-155973-V as alternate gene silencing products.

For independent verification of TRAP (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-155973A, sc-155973B and sc-155973C.

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

TRAP siRNA (m) is recommended for the inhibition of TRAP 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 TRAP gene expression knockdown using RT-PCR Primer: TRAP (m)-PR: sc-155973-PR (20 µl, 599 bp). 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.