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SANTA CRUZ BIOTECHNOLOGY, INC.

WRCH1 siRNA (m): sc-155360

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

WRCH1 (Wnt-1 responsive Cdc42 homolog 1), also known as RHOU (ras homolog family member U), Ryu GTPase, GTP-binding protein-like 1, ARHU or CDC42L1, is a 258 amino acid protein that belongs to the Rho family and small GTPase superfamily. Existing as two alternatively spliced isoforms, WRCH1 localizes to multiple structures including the cell junction, membrane and projection, as well as the Golgi apparatus membrane. WRCH1 is ubiquitously expressed with highest levels found in small intestine, brain, stomach, skeletal muscle and placenta. WRCH1 is essential in the maintenance of cell shape and interacts with βPAK, ARHGAP30, CdGAP and PYK2. The gene encoding WRCH1 maps to human chromosome 1q42.13.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rhou (mouse) mapping to 8 E2.

PRODUCT

WRCH1 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 WRCH1 shRNA Plasmid (m): sc-155360-SH and WRCH1 shRNA (m) Lentiviral Particles: sc-155360-V as alternate gene silencing products.

For independent verification of WRCH1 (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-155360A, sc-155360B and sc-155360C.

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

WRCH1 siRNA (m) is recommended for the inhibition of WRCH1 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 WRCH1 gene expression knockdown using RT-PCR Primer: WRCH1 (m)-PR: sc-155360-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.

PROTOCOLS

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