# RILP siRNA (h): sc-76404



The Power to Question

#### **BACKGROUND**

RILP (Rab interacting lysosomal protein), also known as PP10141, is a 401 amino acid protein that contains one RILP-like domain and localizes to cytoplasmic vesicles, as well as to the late endosome membrane and the intracytoplasmic membrane. Expressed ubiquitously with strongest expression in spleen, heart, stomach, liver, lung and salivary gland, RILP exists as a homodimer that affects Rab function and plays an important role in late endocytic transport to degradative compartments. In addition, RILP is involved in the recruitment of dynein-dynactin motor complex to late endosomes and also participates in the regulation of lysosomal morphology and distribution. Two isoforms of RILP exist due to alternative splicing events.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: RILP (human) mapping to 17p13.3.

### **PRODUCT**

RILP 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  $\mu M$  solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see RILP shRNA Plasmid (h): sc-76404-SH and RILP shRNA (h) Lentiviral Particles: sc-76404-V as alternate gene silencing products.

For independent verification of RILP (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-76404A, sc-76404B and sc-76404C.

#### STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$  C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$  C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330  $\mu$ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNAse-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

### **APPLICATIONS**

RILP siRNA (h) is recommended for the inhibition of RILP 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 RILP gene expression knockdown using RT-PCR Primer: RILP (h)-PR: sc-76404-PR (20  $\mu$ l). 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.

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