

# Produktinformation



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# RBEL1 siRNA (m): sc-152721



The Power to Question

#### **BACKGROUND**

Rab family proteins are generally known as regulators of protein transport and trafficking. A number of Rab proteins have been implicated in cancer development and/or progression. RBEL1 (Rab-like protein 1), also known as PARF (putative GTP-binding protein Parf), is a 729 amino acid protein that may enhance cellular proliferation. It is suggested that an isoform of RBEL1 is overexpressed in two out of three primary breast tumors. RBEL1 has an N-terminal GTP-binding domain, followed by a Rab-like domain, two prolinerich sequences and a C-terminal nuclear localization signal. The RBEL1 protein may reduce growth inhibitory activity of one or more isoforms of p16. RBEL1 exists as five alternatively spliced isoforms and the gene encoding RBEL1 is conserved in canine, bovine, mouse, rat, zebrafish, mosquito and *C. elegans*. The RBEL1 gene maps to human chromosome 9q34.3.

#### **REFERENCES**

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#### **CHROMOSOMAL LOCATION**

Genetic locus: Rabl6 (mouse) mapping to 2 A3.

#### **PRODUCT**

RBEL1 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see RBEL1 shRNA Plasmid (m): sc-152721-SH and RBEL1 shRNA (m) Lentiviral Particles: sc-152721-V as alternate gene silencing products.

For independent verification of RBEL1 (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-152721A, sc-152721B and sc-152721C.

#### 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**

RBEL1 siRNA (m) is recommended for the inhibition of RBEL1 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 RBEL1 gene expression knockdown using RT-PCR Primer: RBEL1 (m)-PR: sc-152721-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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