# RFFL siRNA (h): sc-93845



The Power to Question

#### **BACKGROUND**

Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitinactivating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). RFFL, also known as RNF189, RNF34L or Rififylin, is a 363 amino acid protein that localizes to both the cytoplasm and to the membrane and contains one FYVE-type zinc finger, one RING-type zinc finger and two SAP domains. Expressed ubiquitously with increased expression in testis, spleen, ovary and prostate, RFFL functions as an E3 ubiquitin-protein ligase that interacts with caspase-8 and caspase-10 and targets them for proteasomal degradation. Multiple isoforms of RFFL exist due to alternative splicing events.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: RFFL (human) mapping to 17q12.

# **PRODUCT**

RFFL 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 RFFL shRNA Plasmid (h): sc-93845-SH and RFFL shRNA (h) Lentiviral Particles: sc-93845-V as alternate gene silencing products.

For independent verification of RFFL (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-93845A, sc-93845B and sc-93845C.

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### 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  $\mu$ 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**

RFFL siRNA (h) is recommended for the inhibition of RFFL 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 RFFL gene expression knockdown using RT-PCR Primer: RFFL (h)-PR: sc-93845-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

# **PROTOCOLS**

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

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