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# RNF126 siRNA (m): sc-153008

## BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in protein-protein interactions and protein-DNA interactions. RNF126 (RING finger protein 126) contains one RING-type zinc finger domain and is known to interact with TRAF6 (a ubiquitin ligase) and BAT3 (an apoptotic regulator). RNF126 shares 46% overall amino acid identity with ZNF364 (an E3 ligase that is closely linked to human breast cancer) and 75% amino acid identity within the RING domain. This suggests that RNF126 may have a similar function to that of ZNF364. Due to alternative splicing events, two isoforms exist for RNF126.

## REFERENCES

1. Saurin, A.J., et al. 1996. Does this have a familiar RING? *Trends Biochem. Sci.* 21: 208-214.
2. Bouwmeester, T., et al. 2004. A physical and functional map of the human TNF- $\alpha$ /NF $\kappa$ B signal transduction pathway. *Nat. Cell Biol.* 6: 97-9105.
3. Lehner, B., et al. 2004. Analysis of a high-throughput yeast two-hybrid system and its use to predict the function of intracellular proteins encoded within the human MHC class III region. *Genomics* 83: 153-167.
4. Ishibashi, T., et al. 2005. Oligonucleotide-based microarray analysis of retinoic acid target genes in the protochordate, *Ciona intestinalis*. *Dev. Dyn.* 233: 1571-1578.
5. Burger, A., et al. 2006. Novel RING E3 ubiquitin ligases in breast cancer. *Neoplasia* 8: 689-695.

## CHROMOSOMAL LOCATION

Genetic locus: Rnf126 (mouse) mapping to 10 C1.

## PRODUCT

RNF126 siRNA (m) is a target-specific 19-25 nt siRNA 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 RNF126 shRNA Plasmid (m): sc-153008-SH and RNF126 shRNA (m) Lentiviral Particles: sc-153008-V as alternate gene silencing 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  $\mu$ 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.

## RESEARCH USE

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

## APPLICATIONS

RNF126 siRNA (m) is recommended for the inhibition of RNF126 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  $\mu$ M in 66  $\mu$ l. 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 RNF126 gene expression knockdown using RT-PCR Primer: RNF126 (m)-PR: sc-153008-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](http://www.scbt.com) for detailed protocols and support products.