



# RWDD3 siRNA (m): sc-108768

## BACKGROUND

RWDD3 (RWD domain containing protein 3), also known as RSUME (RWD-containing sumoylation enhancer), is a 267 amino acid protein localized to the nucleus and cytoplasm. RWDD3 contains one RWD domain, a conserved region of about 110 amino acid residues. RWD domains are found in many RING finger proteins, DEAD-like helicases and WD repeat containing proteins. It is believed that RWD domains may be involved in protein interaction. Induced by hypoxia, RWDD3 interacts with UBC9 and enhances the sumoylation of many proteins, including PIAS, HIF-1 $\alpha$  and I $\kappa$ B. Widely expressed, RWDD3 has highest levels found in kidney, heart, liver, pituitary, cerebellum, stomach, spleen and prostate. RWDD3 is expressed as three isoforms produced by alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: *Rwdd3* (mouse) mapping to 3 G1.

## PRODUCT

RWDD3 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 RWDD3 shRNA Plasmid (m): sc-108768-SH and RWDD3 shRNA (m) Lentiviral Particles: sc-108768-V as alternate gene silencing products.

## 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

RWDD3 siRNA (m) is recommended for the inhibition of RWDD3 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.