

# CCDC85B siRNA (m): sc-142150

## BACKGROUND

CCDC85B (coiled-coil domain-containing protein 85B), also known as DIPA (delta-interacting protein A), is a 202 amino acid nuclear and cytoplasmic protein that belongs to the CCDC85 family. As a transcriptional repressor, CCDC85B may inhibit the activity of CTNNB1 in a TP53-dependent manner and thus regulate cell growth. CCDC85B may also play a role in adipocyte differentiation, negatively regulating mitotic clonal expansion. While it is up-regulated by doxorubicin, CCDC85B also interacts with a number of proteins including C/EBP  $\beta$ , C/EBP  $\delta$ , MSP58, TCF-4 and HDAg (viral phosphoprotein hepatitis  $\alpha$  antigen). The interaction between CCDC85B and HDAg affects viral genomic replication in intact cells. The gene that encodes CCDC85B consists of approximately 1,232 bases and maps to human chromosome 11q13.1.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Ccdc85b (mouse) mapping to 19 A.

## PRODUCT

CCDC85B 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 CCDC85B shRNA Plasmid (m): sc-142150-SH and CCDC85B shRNA (m) Lentiviral Particles: sc-142150-V as alternate gene silencing products.

For independent verification of CCDC85B (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-142150A, sc-142150B and sc-142150C.

## 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

CCDC85B siRNA (m) is recommended for the inhibition of CCDC85B 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 CCDC85B gene expression knockdown using RT-PCR Primer: CCDC85B (m)-PR: sc-142150-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](http://www.scbt.com) for detailed protocols and support products.