# ARMC3 siRNA (m): sc-141255



The Power to Question

## **BACKGROUND**

The armadillo (ARM) repeat family of proteins are related to the *Drosophila melanogaster* armadillo protein, a protein essential for wingless signal transduction. ARM proteins are involved in a variety of processes such as cell migration, cell proliferation, tissue maintenance and tumorigenesis. They are intracellular proteins that function in signal transduction and cell structure. ARMC3 (armadillo repeat-containing protein 3), also known as  $\beta$ -catenin-like protein, KU-CT-1 or cancer/testis antigen 81 (CT81), is a 872 amino acid protein that contains 12 ARM domains. Expressed in a wide variety of tissues, such as lung, brain, kidney, skeletal muscle, prostate, testis, spleen and thymus, ARMC3 has been identified in many cancer tissues and is thought to play a role in tumor initiation. Five named isoforms of ARMC3 exist as a result of alternative splicing events.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: Armc3 (mouse) mapping to 2 A3.

#### **PRODUCT**

ARMC3 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 ARMC3 shRNA Plasmid (m): sc-141255-SH and ARMC3 shRNA (m) Lentiviral Particles: sc-141255-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.

## **APPLICATIONS**

ARMC3 siRNA (m) is recommended for the inhibition of ARMC3 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 ARMC3 gene expression knockdown using RT-PCR Primer: ARMC3 (m)-PR: sc-141255-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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