

# Human DENR Knockdown Cell Line (WB-Validated)



**Catalog #: C61541**

## Aliases

DENR; Density Regulated Re-Initiation And Release Factor; SMAP-3; DRP1; DRP; Density-Regulated Protein; Smooth Muscle Cell Associated Protein-3; Smooth Muscle Cell-Associated Protein 3; Protein DRP1

## Background

Gene Name: DENR

NCBI Gene Entry: [8562](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human DENR Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

## Parental Cell Line

Human cell line supplied by the client

## Validation Methods

RT-qPCR, Western blotting (WB)

## Shipping

Shipped on Dry Ice.

## Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

**Note:** This product is for research use only.

## Validation Data

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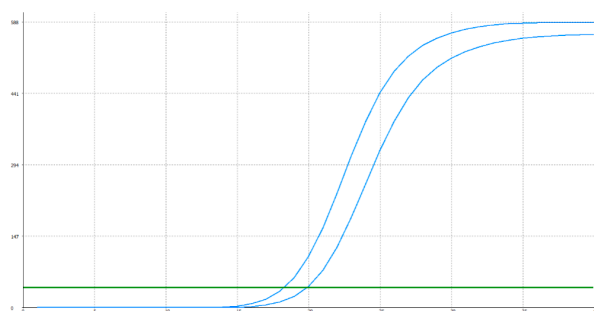
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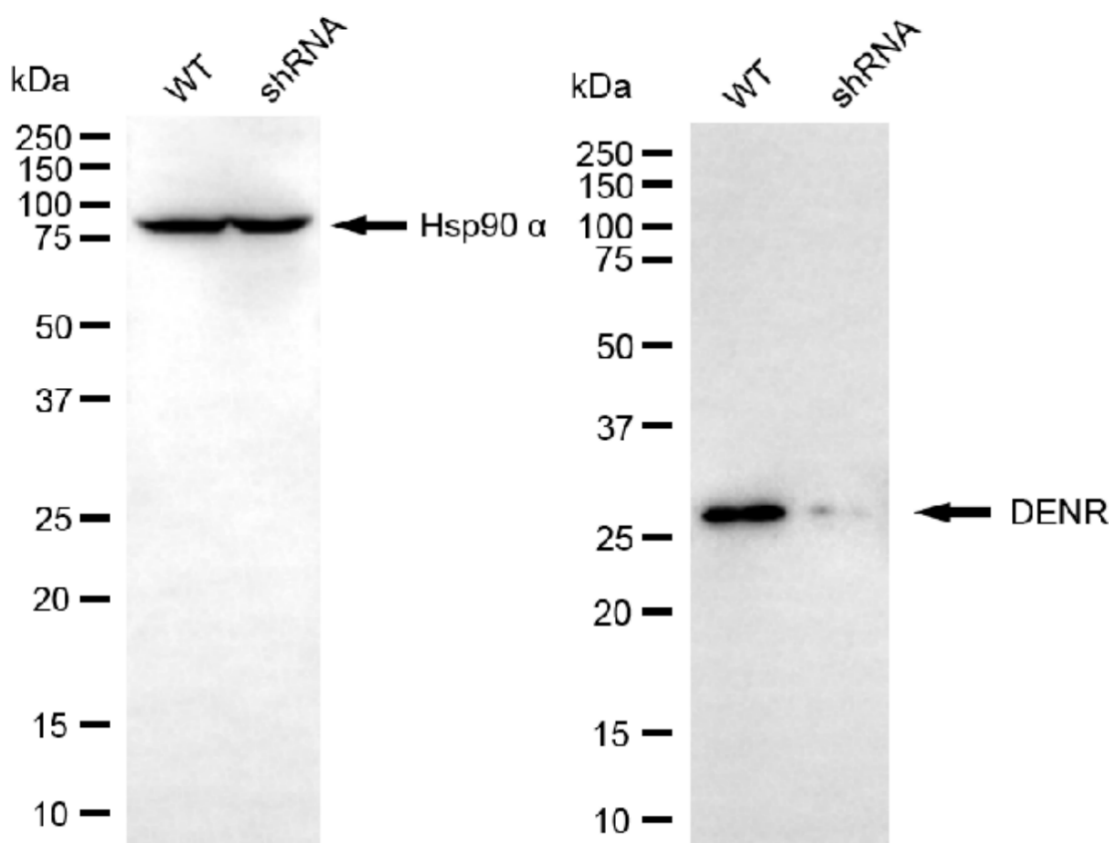
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Genotype	Ct Value
Wild-Type	18.29
Knock-Down	19.81
$\Delta Ct (Ct_{KD} - Ct_{WT})$	1.52
% mRNA Reduction	↓ 65%

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RT-qPCR analysis. HeLa cells were infected with DENR-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD} - Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1 - 1/2^{\Delta Ct}) \times 100\%$ .



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Western blotting analysis. DENR protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies against DENR and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.