

Human DES Knockdown Cell Line (WB-Validated)



Catalog #: C61568

Aliases

DES; Desmin; CSM1; CSM2; Intermediate Filament Protein; Cardiomyopathy, Dilated 1I; LGMD2R; CMD1I; Cardiomyopathy, Dilated 1F (Autosomal Dominant); Epididymis Secretory Sperm Binding Protein; LGMD1D; LGMD1E; CDCD3

Background

Gene Name: DES

NCBI Gene Entry: [1674](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DES 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

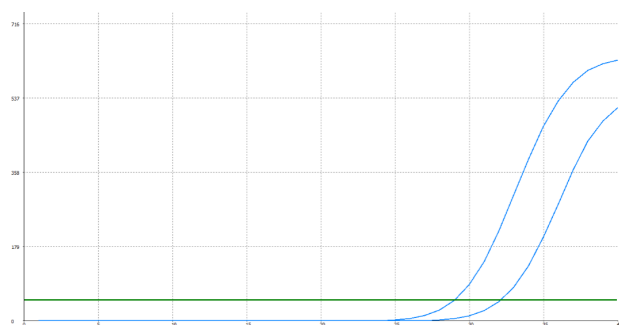
SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

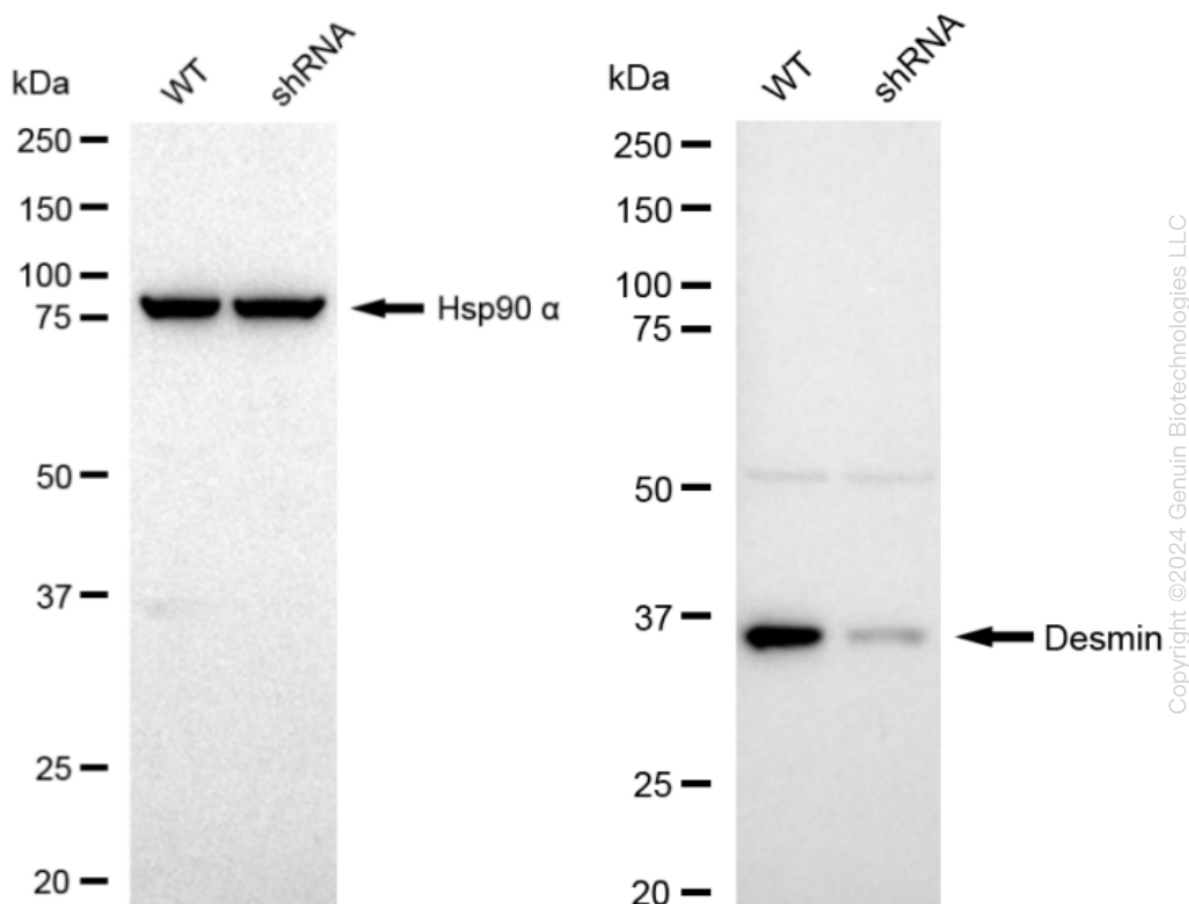
SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM



Genotype	Ct Value
Wild-Type	28.80
Knock-Down	31.56
$\Delta Ct (Ct_{KD} - Ct_{WT})$	2.76
% mRNA Reduction	↓ 85%

RT-qPCR analysis. C2C12 cells were infected with DES-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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. DES protein expression in wild-type (WT) and shRNA knockdown (KD) C2C12 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against DES and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.