Human DSTN Knockdown Cell Line (WB-Validated)

Catalog #: C1942

Aliases

DSTN; Destrin, Actin Depolymerizing Factor; ACTDP; ADF; Actin-Depolymerizing Factor; Destrin; BA462D18.2 (Destrin (Actin Depolymerizing Factor ADF) (ACTDP)); Epididymis Secretory Sperm Binding Protein; Destrin (Actin Depolymerizing Factor); Epididymis Luminal Protein 32; BA462D18.2; HEL32; DSN

Background

Gene Name: DSTN
NCBI Gene Entry: 11034

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DSTN 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.

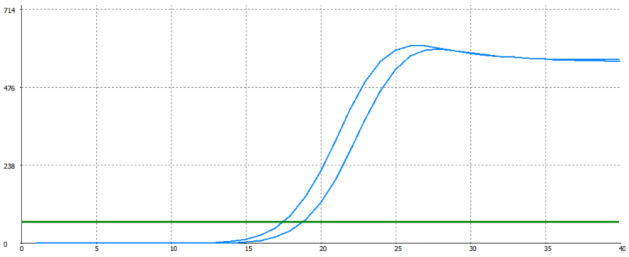
Instructions For Use

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

Note: This product is for research use only.

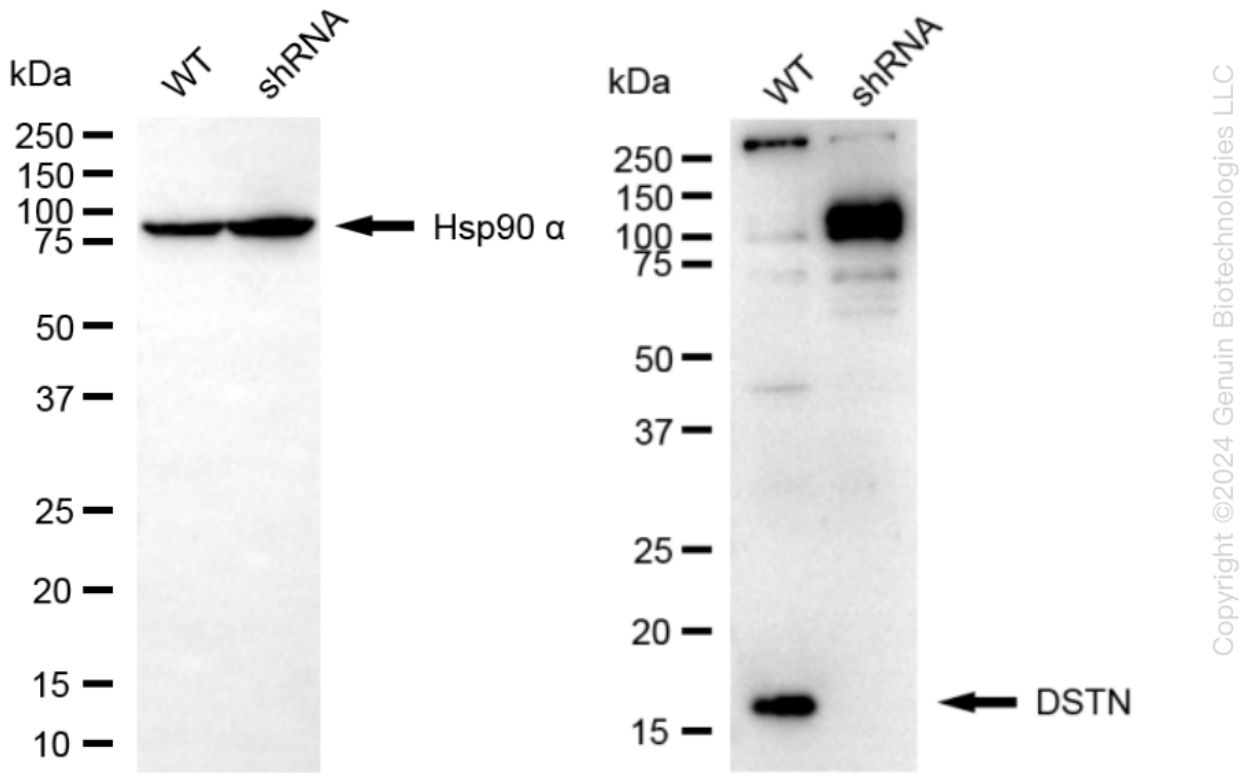
Validation Data

Human DSTN Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	16.81
Knock-Down	18.11
ΔCt (Ct_{KD}-Ct_{WT})	1.3
% mRNA Reduction	⬇ 59%

RT-qPCR analysis. HeLa cells were infected with DSTN-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



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