Human DROSHA Knockdown Cell Line (WB-Validated)

Catalog #: C61937

Aliases

DROSHA; Drosha Ribonuclease III; RNASE3L; RN3; HSA242976; RNASEN; Drosha, Double-Stranded RNA-Specific Endoribonuclease; Ribonuclease Type III, Nuclear; Ribonuclease 3; EC 3.1.26.3; RNase III; ETOHI2; P241; Putative Protein P241 Which Interacts With Transcription Factor Sp1; Drosha, Ribonuclease Type III; Putative Ribonuclease III; Nuclear RNase III Drosha; Ribonuclease III; Protein Drosha; RANSE3L; Etohi2

Background

Gene Name: DROSHA
NCBI Gene Entry: 29102

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DROSHA 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.

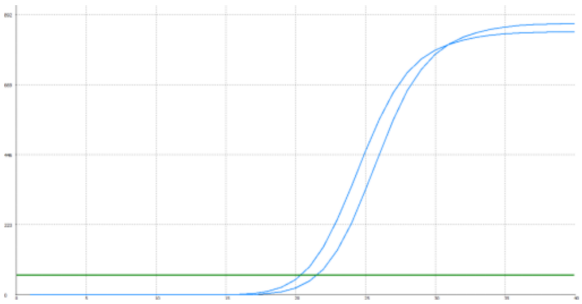
Instructions For Use

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

Note: This product is for research use only.

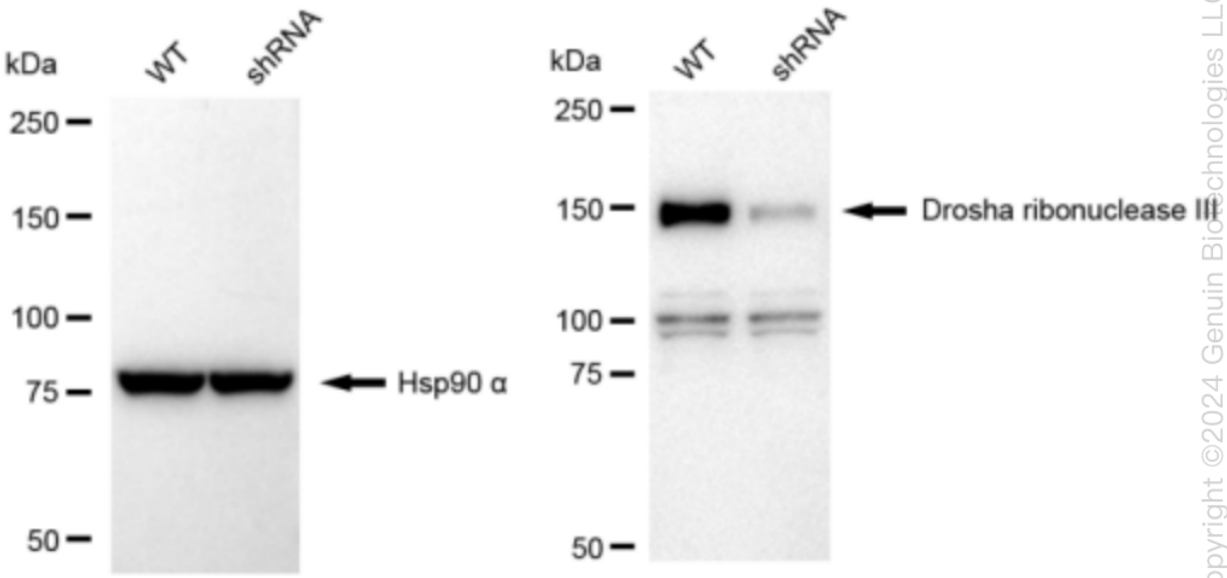
Validation Data

Human DROSHA Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.36
Knock-Down	21.22
ΔCt (Ct_{KD}-Ct_{WT})	1.86
% mRNA Reduction	⬇ 72%

RT-qPCR analysis. HeLa cells were infected with DROSHA-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. DROSHA 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 (Cat#61937, 1:5,000) against DROSHA and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit

(Cat#226).