

# Human KRT4 Knockdown Cell Line (WB-Validated)



**Catalog #: C62132**

## Aliases

KRT4; KeRatin 4; CYK4; K4; KeRatin, Type II Cytoskeletal 4; CK4; Type-II KeRatin Kb4; CytokeRatin 4; CK-4; KeRatin 4, Type II; CytokeRatin-4; KeRatin-4; WSN1

## Background

Gene Name: KRT4

NCBI Gene Entry: [3851](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human KRT4 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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### SUPPORT

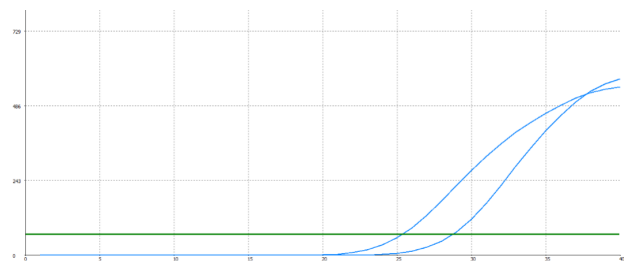
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### ORDERS

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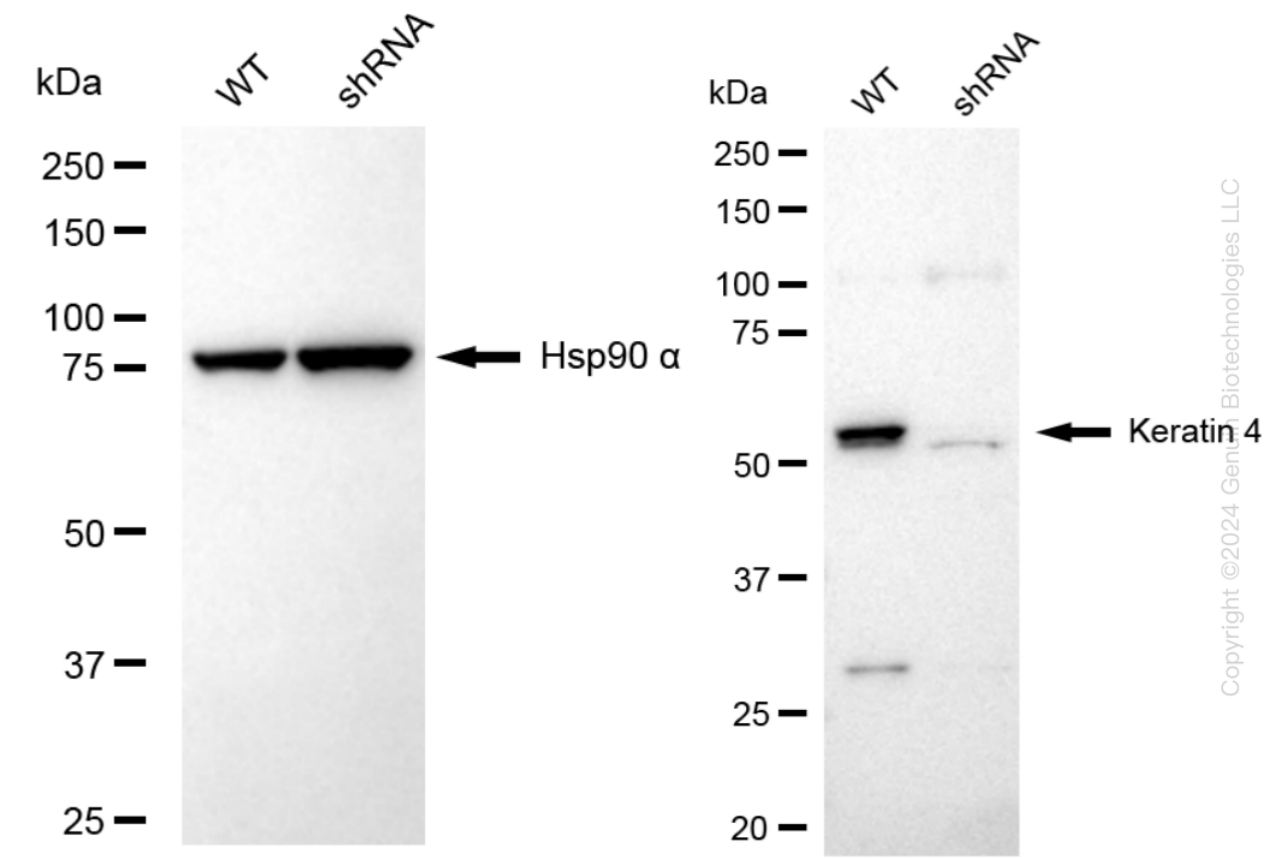
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Human KRT4 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.24
Knock-Down	27.73
$\Delta Ct (Ct_{KD}-Ct_{WT})$	3.49
% mRNA Reduction	↓ 91%

RT-qPCR analysis. HeLa cells were infected with KRT4-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. KRT4 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 KRT4 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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