

# Human CST3 Knockdown Cell Line (WB-Validated)



**Catalog #: C1773**

## Aliases

CST3; Cystatin C; Neuroendocrine Basic Polypeptide; Post-Gamma-Globulin; Gamma-Trace; Cystatin-C; Cystatin C (Amyloid Angiopathy And Cerebral Hemorrhage); Epididymis Secretory Protein Li; BA218C14.4 (Cystatin C); Cystatin 3; Cystatin-3; HEL-S-2 3; ARMD11

## Background

Gene Name: CST3

NCBI Gene Entry: [1471](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human CST3 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

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

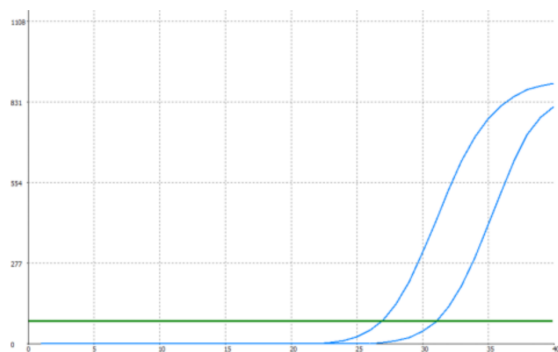
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Genotype	Ct Value
Wild-Type	26.48
Knock-Down	30.47
$\Delta Ct$ ( $Ct_{KD}-Ct_{WT}$ )	3.99
% mRNA Reduction	↓ 94%

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RT-qPCR analysis. HeLa cells were infected with CST3-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:  $(1-1/2^{\Delta Ct}) \times 100\%$ .

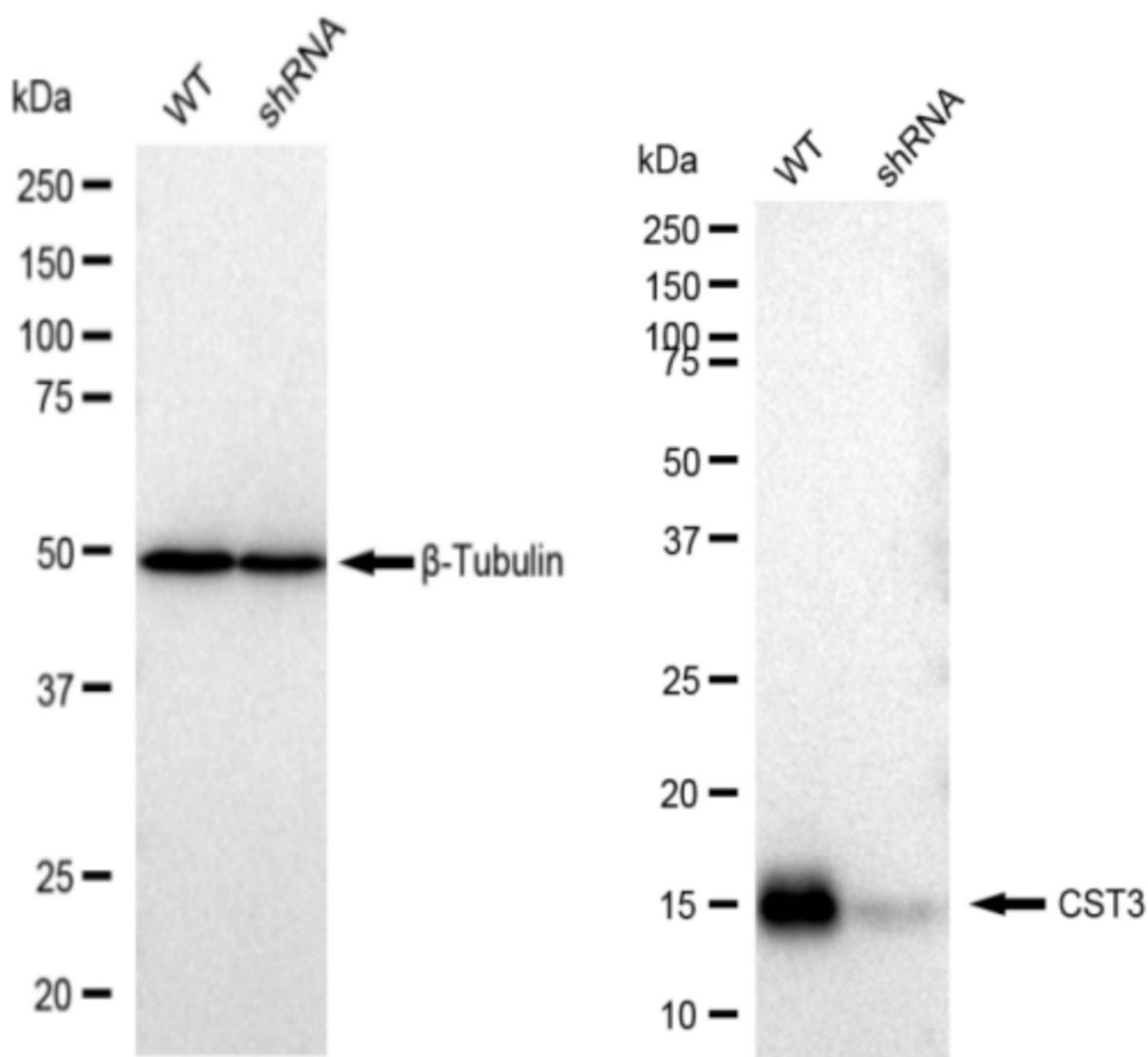
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Western blotting analysis. CST3 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61773, 1:5,000) against CST3 and  $\beta$ -Tubulin, 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).