

# Human CBS Knockdown Cell Line (WB-Validated)



**Catalog #: C61446**

## Aliases

CBS; Cystathionine Beta-Synthase; HIP4; Serine Sulphydrase; Beta-Thionase; EC 4.2.1.22; Cystathionine Beta-Synthase-Like Protein; Cystathionine-Beta-Synthase; Methyleysteine Synthase; CBSL

## Background

Gene Name: CBS  
NCBI Gene Entry: [875](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human CBS 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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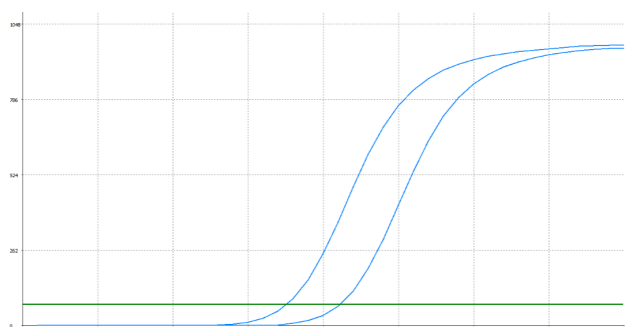
### SUPPORT

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

### ORDERS

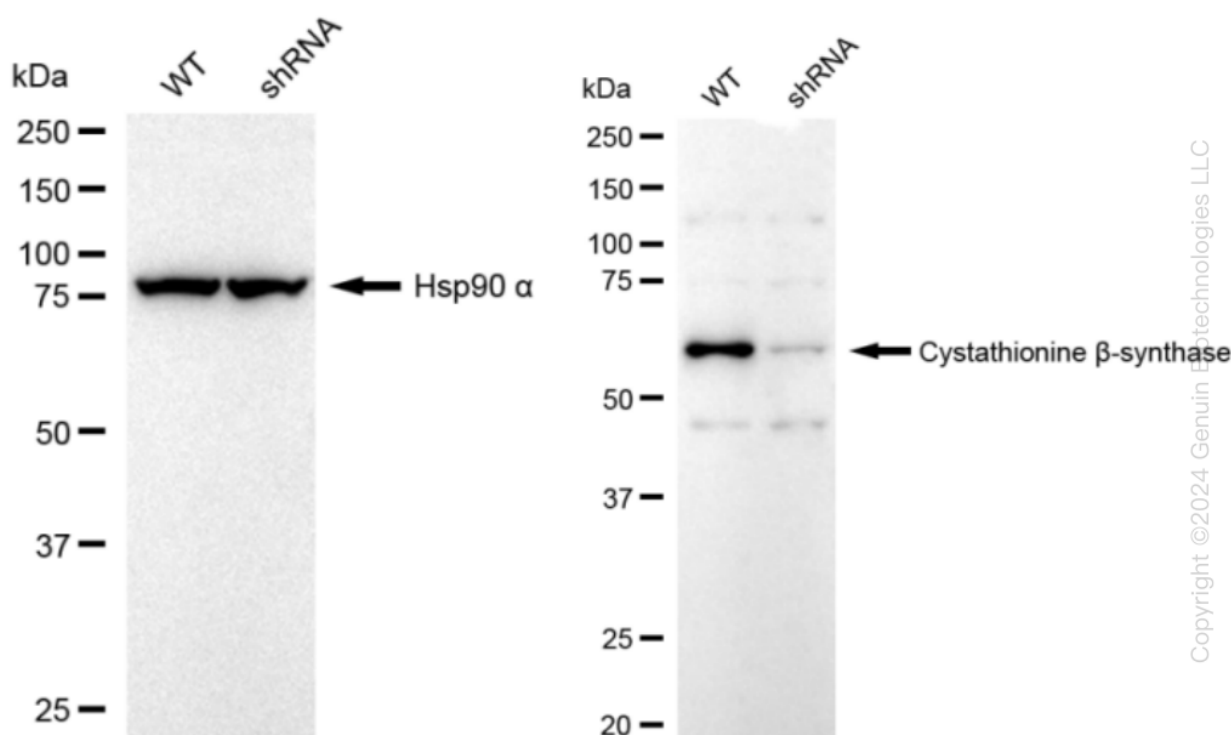
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| Genotype                      | Ct Value |
|-------------------------------|----------|
| Wild-Type                     | 17.46    |
| Knock-Down                    | 21.03    |
| $\Delta Ct (Ct_{KD}-Ct_{WT})$ | 3.57     |
| % mRNA Reduction              | ↓ 92%    |

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