

Human CAT Knockdown Cell Line (WB-Validated)



Catalog #: C61318

Aliases

CAT; Catalase; EC 1.11.1.6; Epididymis Secretory Sperm Binding Protein

Background

Gene Name: CAT

NCBI Gene Entry: [847](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CAT 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

SUPPORT

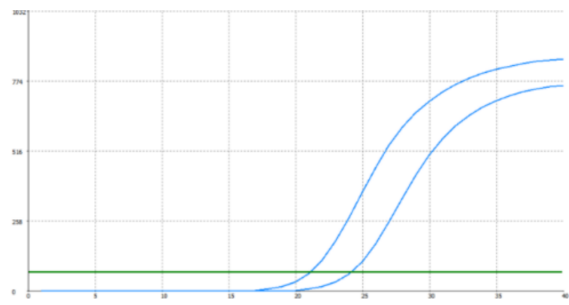
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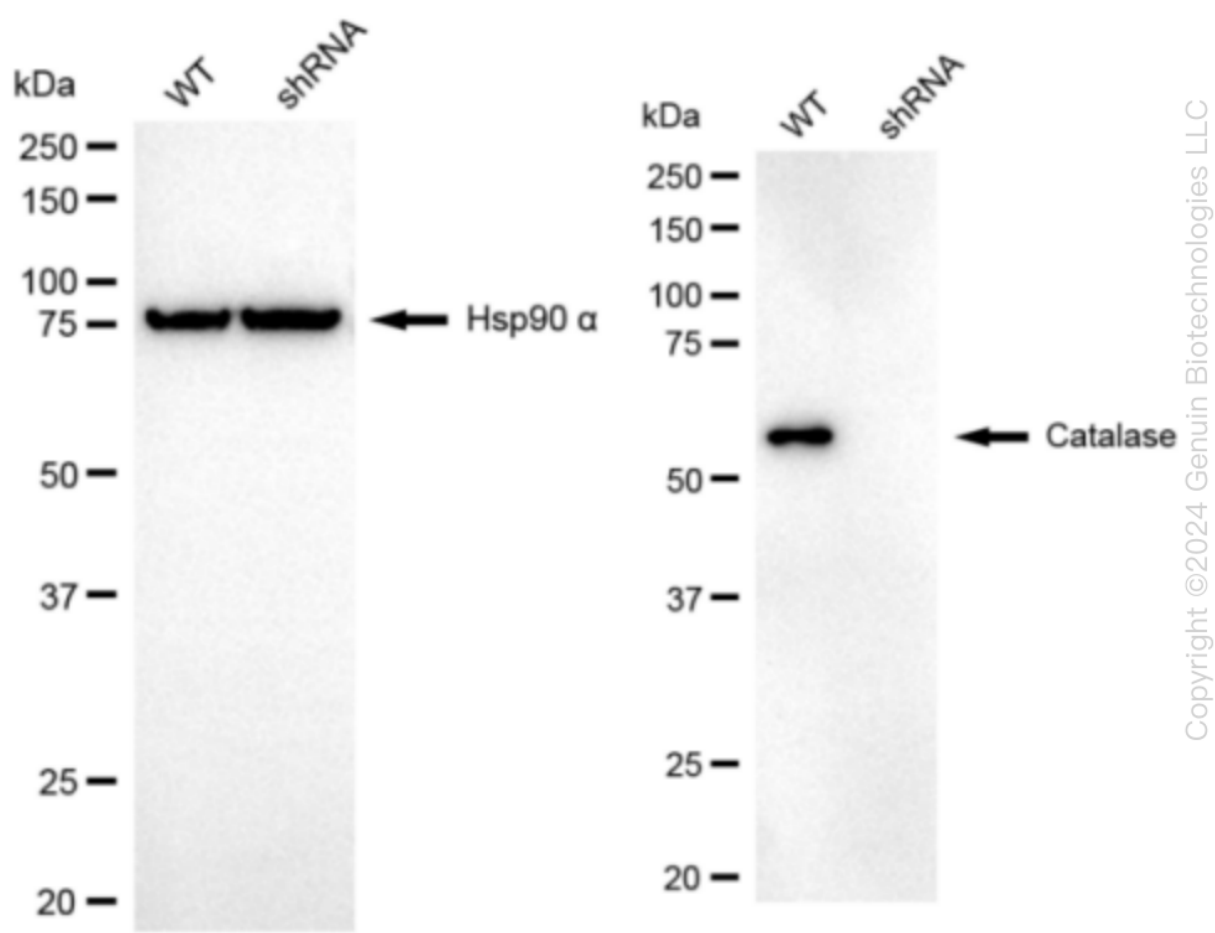
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Genotype	Ct Value
Wild-Type	20.85
Knock-Down	23.67
Δ Ct (Ct _{KD} -Ct _{WT})	2.82
% mRNA Reduction	↓ 86%

RT-qPCR analysis. HeLa cells were infected with CAT-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (Ct_{KD}-Ct_{WT}) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2^{\Delta\text{Ct}}) \times 100\%$.



Western blotting analysis. CAT 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#61318, 1:5,000) against CAT 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).

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