

Human TIA1 Knockdown Cell Line (WB-Validated)



Catalog #: C62711

Aliases

TIA1; TIA1 Cytotoxic Granule Associated RNA Binding Protein; TIA-1; T-Cell-Restricted Intracellular Antigen-1; Cytotoxic Granule Associated RNA Binding Protein TIA1; Nucleolysin TIA-1 Isoform P40; TIA1 Cytotoxic Granule-Associated RNA-Binding Protein; P40-TIA-1 (Containing P15-TIA-1); RNA-Binding Protein TIA-1; P40-TIA-1; ALS26; WDM

Background

Gene Name: TIA1

NCBI Gene Entry: [7072](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human TIA1 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

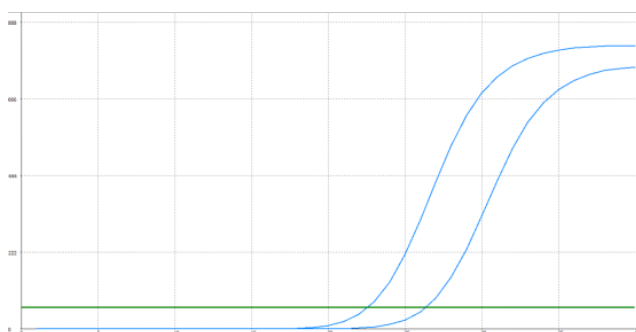
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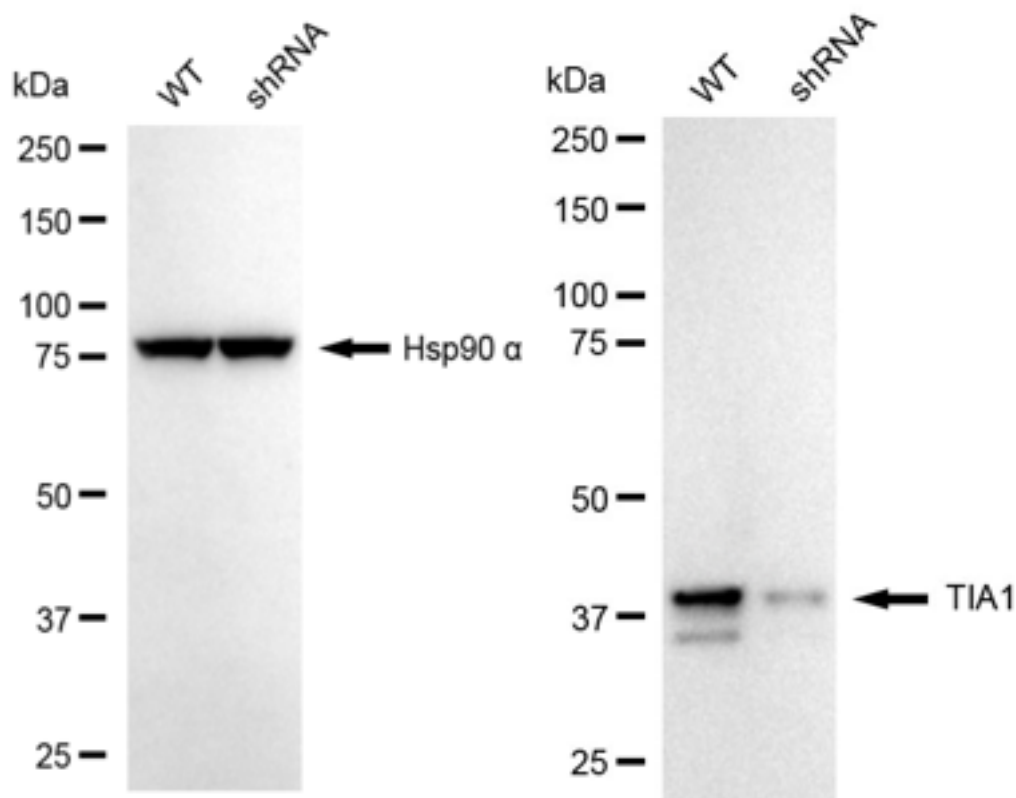
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Genotype	Ct Value
Wild-Type	22.44
Knock-Down	26.10
Δ Ct (CtKD-CtWT)	3.66
% mRNA Reduction	92%

RT-qPCR analysis. HeLa cells were infected with TIA1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) 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. TIA1 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 against TIA1 and Hsp90 α , respectively, followed by

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PAGE 3

incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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