

Human B2M Knockdown Cell Line (WB-Validated)



Catalog #: C62026

Aliases

B2M; Beta-2-Microglobulin; Beta Chain Of MHC Class I Molecules; Beta-2-Microglobin; IMD43

Background

Gene Name: B2M

NCBI Gene Entry: [567](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human B2M 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

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

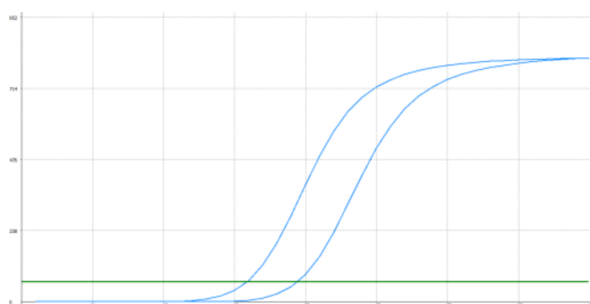
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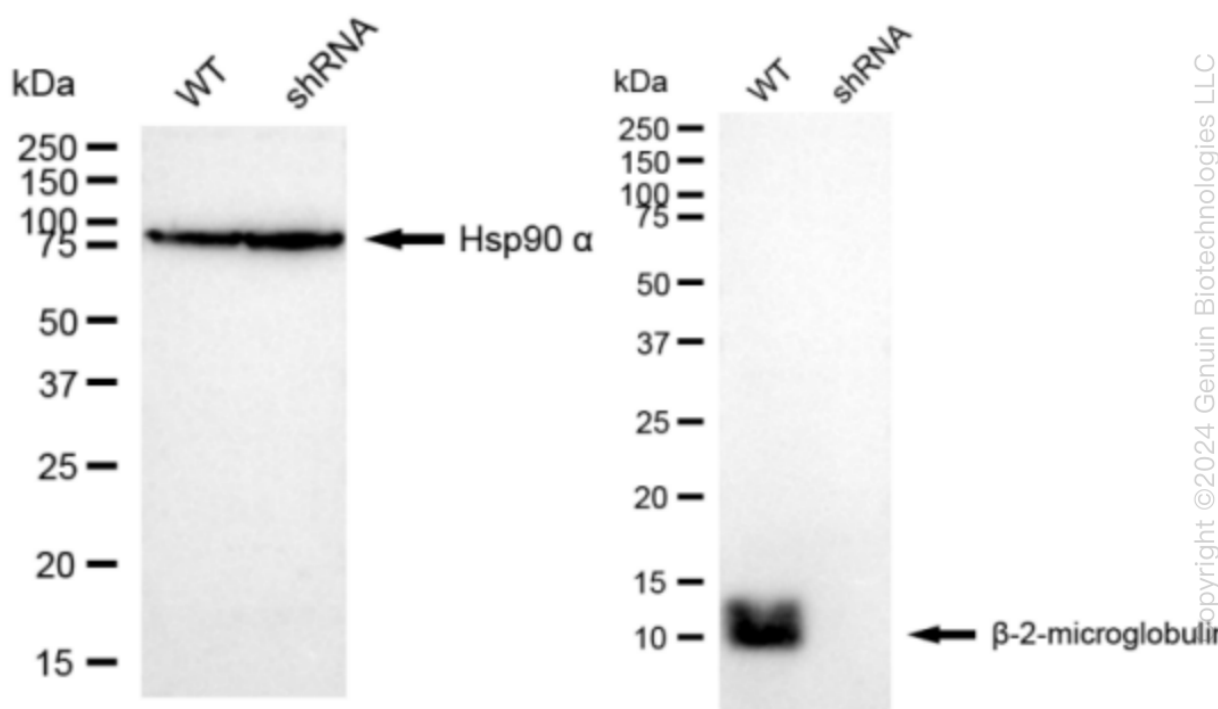
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Genotype	Ct Value
Wild-Type	15.62
Knock-Down	19.20
$\Delta Ct (Ct_{KD} - Ct_{WT})$	3.58
% mRNA Reduction	↓ 92%

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RT-qPCR analysis. HeLa cells were infected with B2M-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. B2M 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#62026, 1:5,000) against B2M 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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