Human HLA-A Knockdown Cell Line (WB-Validated)

Catalog #: C61166

Aliases

HLA-A; Major Histocompatibility Complex, Class I, A; HLA Class I Histocompatibility Antigen, A Alpha Chain; HLAA; HLA Class I Histocompatibility Antigen, A-1 Alpha Chain; MHC Class I Antigen HLA-A Heavy Chain; Leukocyte Antigen Class I-A; Human Leukocyte Antigen A

Background

Gene Name: HLA-A
NCBI Gene Entry: 3105

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human HLA-A 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.

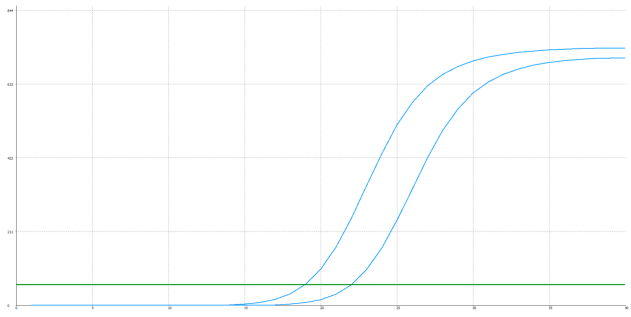
Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

Note: This product is for research use only.

Validation Data

Human HLA-A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	18.72
Knock-Down	21.69
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	2.97
% mRNA Reduction	⬇ 87%

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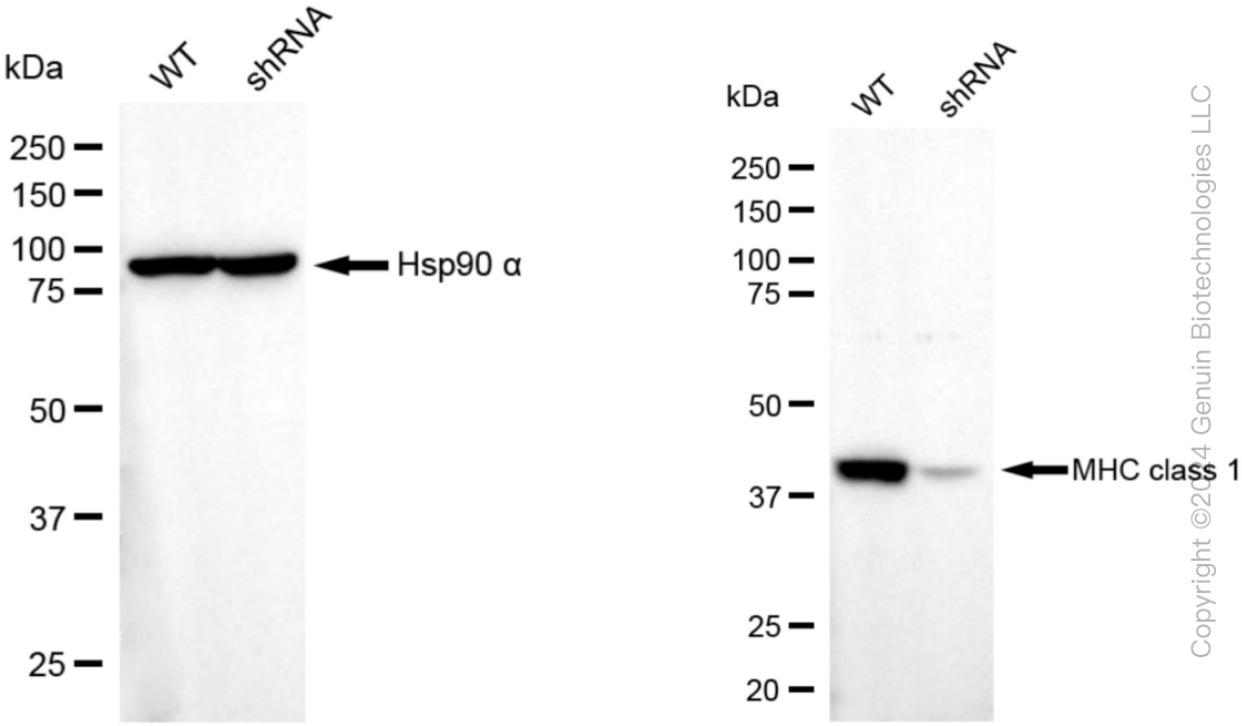
RT-qPCR analysis. HT-1080 cells were infected with HLA-A-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis. HLA-A protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against HLA-A and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.