Human IMMT Knockdown Cell Line (WB-Validated)

Catalog #: C65108

Aliases

IMMT; Inner Membrane Mitochondrial Protein; MINOS2; HMP; Mitofilin; MICOS60; Mic60; P87; P89; Mitochondrial Contact Site And Cristae Organizing System Subunit 60; Mitochondrial Inner Membrane Organizing System 2; Cell Proliferation-Inducing Gene 4/52 Protein; Mitochondrial Inner Membrane Protein; MICOS Complex Subunit MIC60; Heart Muscle Protein; P87/89; Inner Membrane Protein, Mitochondrial (Mitofilin); Cell Proliferation-Inducing Protein 52; Proliferation-Inducing Gene 4; Motor Protein; PIG52; MIC60; PIG4

Background

Gene Name: IMMT
NCBI Gene Entry: 10989

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human IMMT 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.

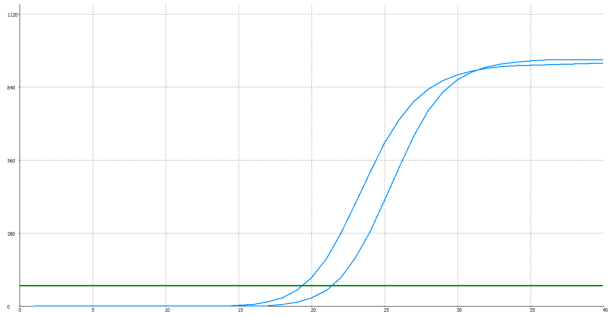
Instructions For Use

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

Note: This product is for research use only.

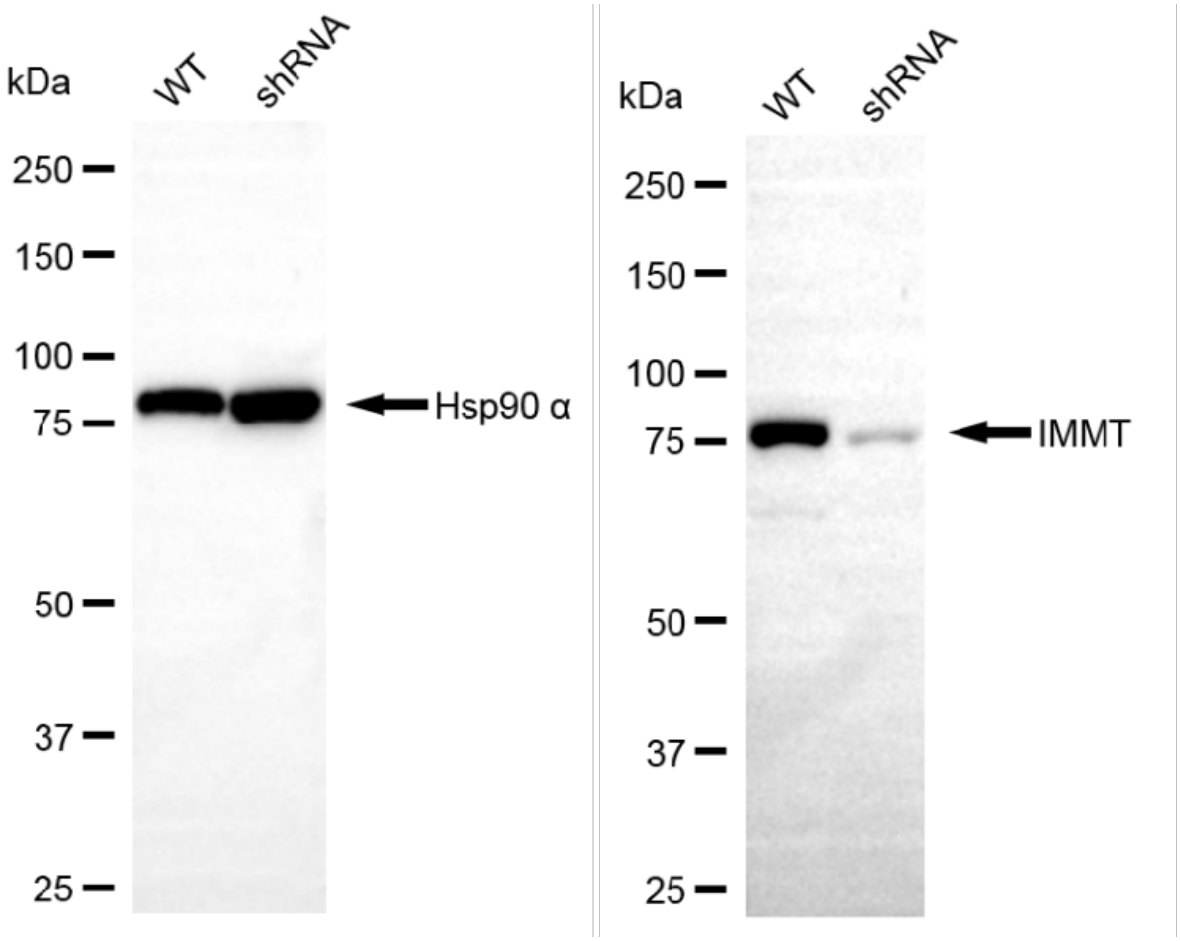
Validation Data

Human IMMT Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.09
Knock-Down	21.12
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	2.03
% mRNA Reduction	⬇ 76%

RT-qPCR analysis. 293T cells were infected with IMMT-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. IMMT protein expression in wild-type (WT) and shRNA knockdown (KD) 293T cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against IMMT and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.