Human MERTK Knockdown Cell Line (WB-Validated)

Catalog #: C61164

Aliases

MERTK; MER Proto-Oncogene, Tyrosine Kinase; Tyro12; C-Eyk; RP38; Mer; C-Mer Proto-Oncogene Tyrosine Kinase; Receptor Tyrosine Kinase MerTK; Tyrosine-Protein Kinase Mer; Proto-Oncogene C-Mer; EC 2.7.10.1; MER Receptor Tyrosine Kinase; STK Kinase; EC 2.7.10; C-Mer; MER

Background

Gene Name: MERTK
NCBI Gene Entry: 10461

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MERTK 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.

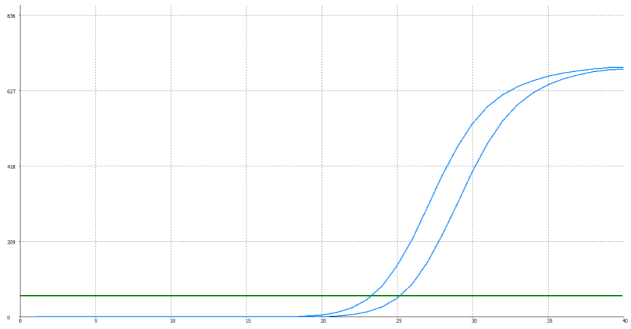
Instructions For Use

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

Note: This product is for research use only.

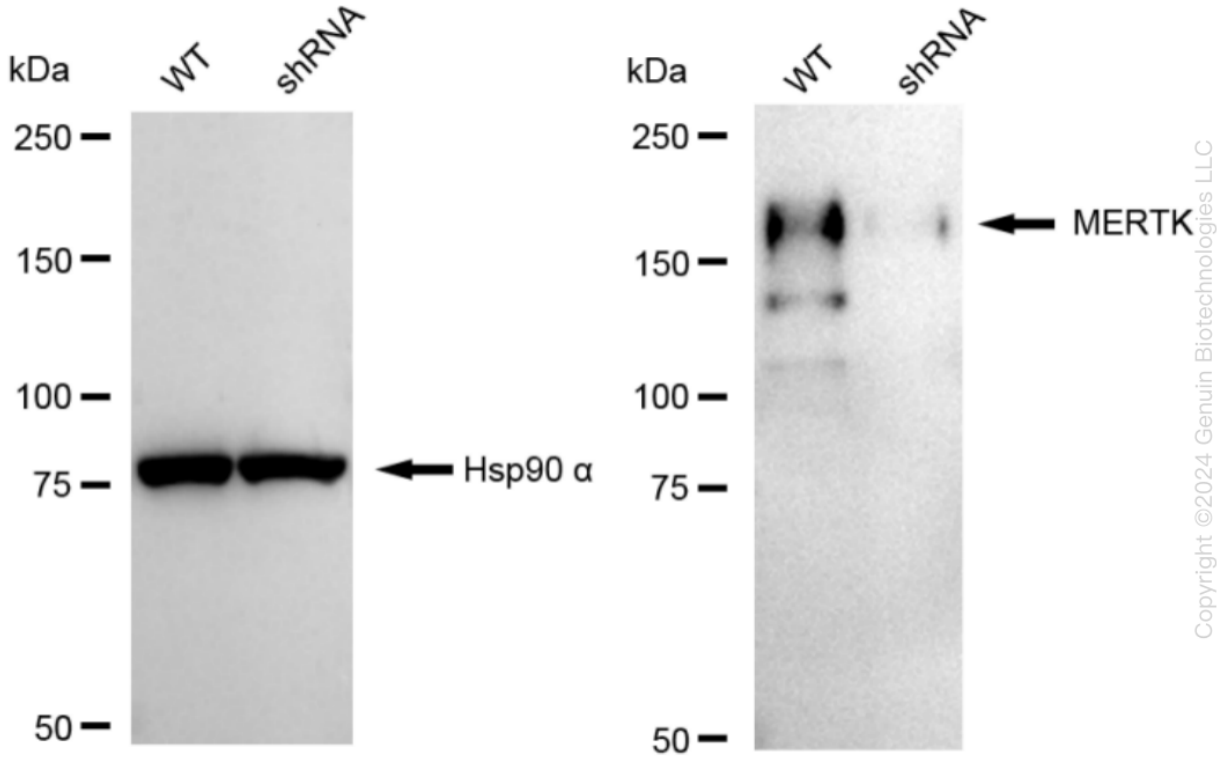
Validation Data

Human MERTK Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.03
Knock-Down	24.86
ΔCt (Ct_{KD}-Ct_{WT})	1.83
% mRNA Reduction	⬇ 72%

RT-qPCR analysis. HT-1080 cells were infected with MERTK-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. MERTK 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 MERTK and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.