Human TRPM7 Knockdown Cell Line (WB-Validated)

Catalog #: C62634

Aliases

TRPM7; Transient Receptor Potential Cation Channel Subfamily M Member 7; LTRPC7; CHAK1; TRP-PLIK; Long Transient Receptor Potential Channel 7; Channel-Kinase 1; EC 2.7.11.1; LTrpC-7; Transient Receptor Potential Cation Channel, Subfamily M, Member 7; Transient Receptor Potential-Phospholipase C-Interacting Kinase; LTRPC Ion Channel Family Member 7; ALSPDC; LTrpC7; CHAK

Background

Gene Name: TRPM7
NCBI Gene Entry: 54822

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human TRPM7 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.

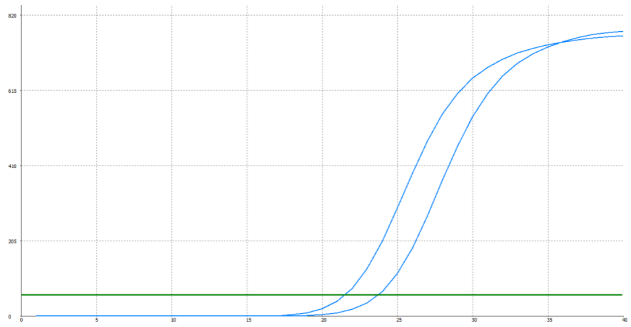
Instructions For Use

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 TRPM7 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.39
Knock-Down	23.62
ΔCt (Ct_{KD}-Ct_{WT})	2.23
% mRNA Reduction	⬇ 79%

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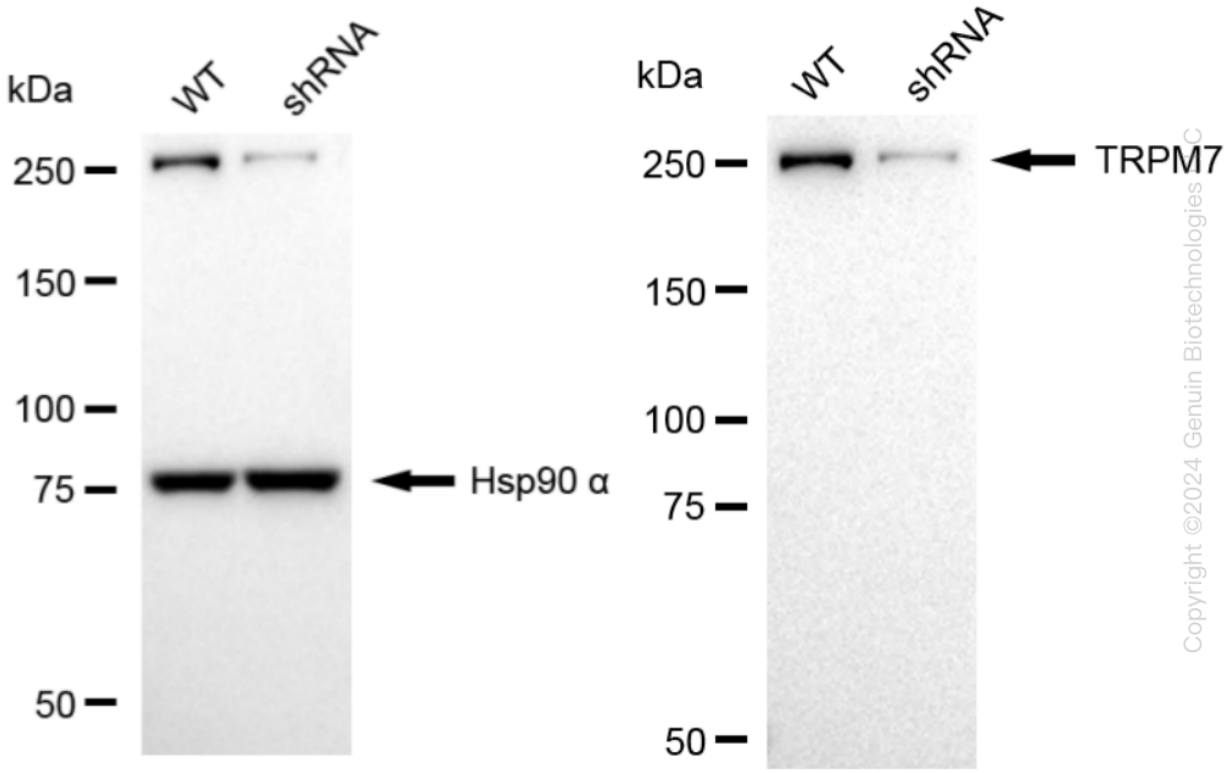
RT-qPCR analysis. HeLa cells were infected with TRPM7-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis. TRPM7 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 TRPM7 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.