Human MAPK6 Knockdown Cell Line (WB-Validated)

Catalog #: C65580

Aliases

MAPK6; Mitogen-Activated Protein Kinase 6; ERK3; HsT17250; P97MAPK; PRKM6; Extracellular Signal-Regulated Kinase 3; MAP Kinase 6; EC 2.7.11.24; P97-MAPK; MAPK 6; ERK-3; Extracellular Signal-Regulated Kinase, P97; Protein Kinase, Mitogen-Activated 5; Protein Kinase, Mitogen-Activated 6; MAP Kinase Isoform P97; EC 2.7.11

Background

Gene Name: MAPK6
NCBI Gene Entry: 5597

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MAPK6 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.

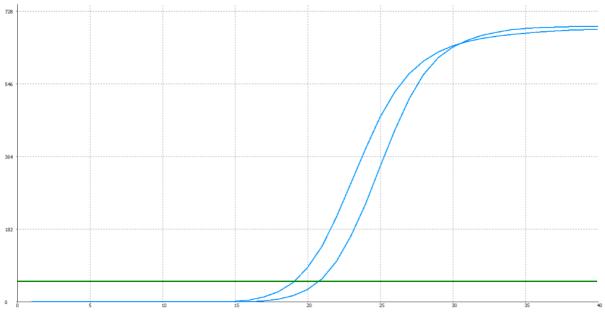
Instructions For Use

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

Note: This product is for research use only.

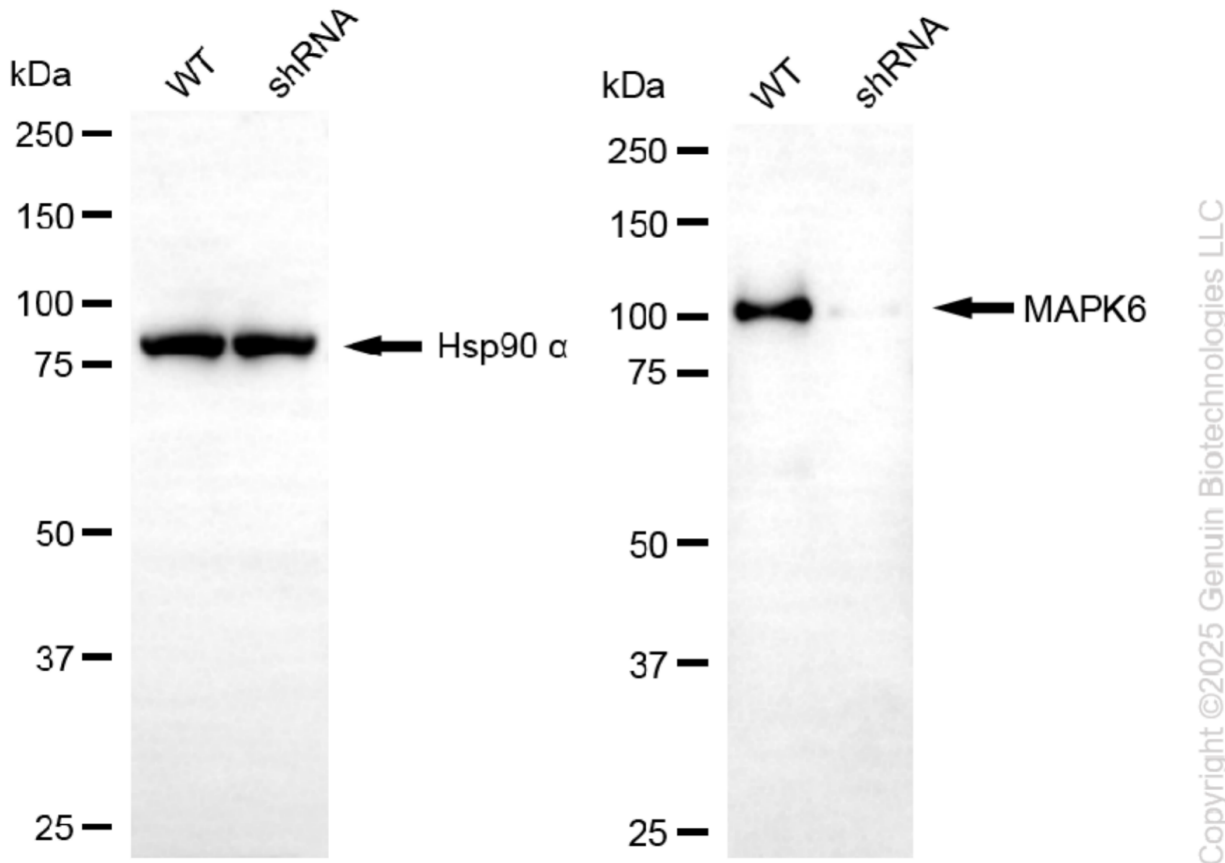
Validation Data

Human MAPK6 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.02
Knock-Down	20.67
ΔCt (Ct_{KD}-Ct_{WT})	1.65
% mRNA Reduction	⬇ 68%

RT-qPCR analysis. HeLa cells were infected with MAPK6-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.MAPK6 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 MAPK6 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.