Human MAPK3 Knockdown Cell Line (WB-Validated)

Catalog #: C61484

Aliases

MAPK3; Mitogen-Activated Protein Kinase 3; ERK1; PRKM3; Extracellular Signal-Regulated Kinase 1; Microtubule-Associated Protein 2 Kinase; Insulin-Stimulated MAP2 Kinase; EC 2.7.11.24; P44-ERK1; P44-MAPK; P44ERK1; P44MAPK; ERK-1; ERT2; Extracellular Signal-Related Kinase 1; MAP Kinase Isoform P44; MAP Kinase; EC 2.7.11; HS44KDAP; HUMKER1A; P44mapk; P44erk1; MAPK 1; MAPK

Background

Gene Name: MAPK3
NCBI Gene Entry: 5595

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MAPK3 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.

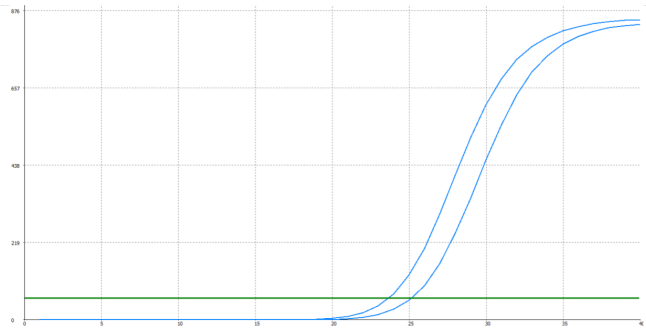
Instructions For Use

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

Note: This product is for research use only.

Validation Data

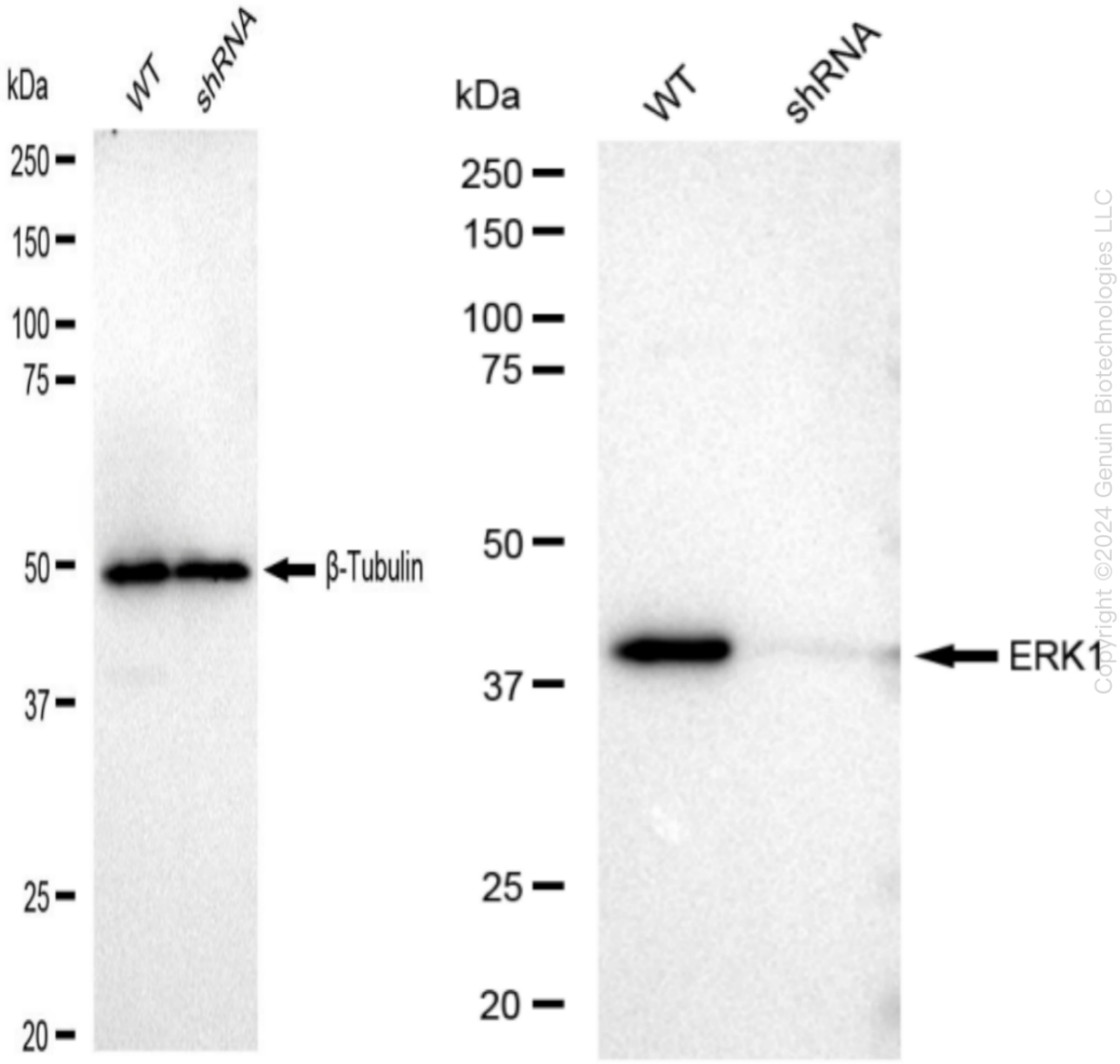
Human MAPK3 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.62
Knock-Down	25.1
ΔCt (Ct_{KD}-Ct_{WT})	1.48
% mRNA Reduction	⬇ 64%

RT-qPCR analysis. HeLa cells were infected with MAPK3-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%.

Human MAPK3 Knockdown Cell Line (WB-Validated)



Western blotting analysis. MAPK3 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61483, 1:5,000) against MAPK3 and β-Tubulin , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).