Human MCM3 Knockdown Cell Line (WB-Validated)

Catalog #: C61488

Aliases

MCM3; Minichromosome Maintenance Complex Component 3; DNA Polymerase Alpha Holoenzyme-Associated Protein P1; DNA Replication Licensing Factor MCM3; RLF Subunit Beta; P1-MCM3; P102; MCM3 Minichromosome Maintenance Deficient 3 (S. Cerevisiae); Minichromosome Maintenance Deficient (S. Cerevisiae) 3; MCM3 Minichromosome Maintenance Deficient 3; Replication Licensing Factor, Beta Subunit; Minichromosome Maintenance Deficient 3; Cervical Cancer Proto-Oncogene 5; DNA Replication Factor MCM3; HRlf Beta Subunit; EC 3.6.4.12; HCC5; P1.H; RLFB

Background

Gene Name: MCM3
NCBI Gene Entry: 4172

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MCM3 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.

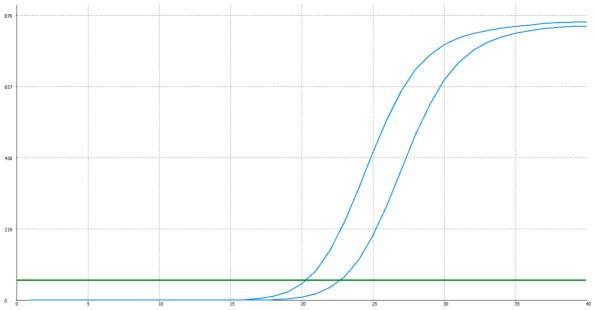
Instructions For Use

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

Note: This product is for research use only.

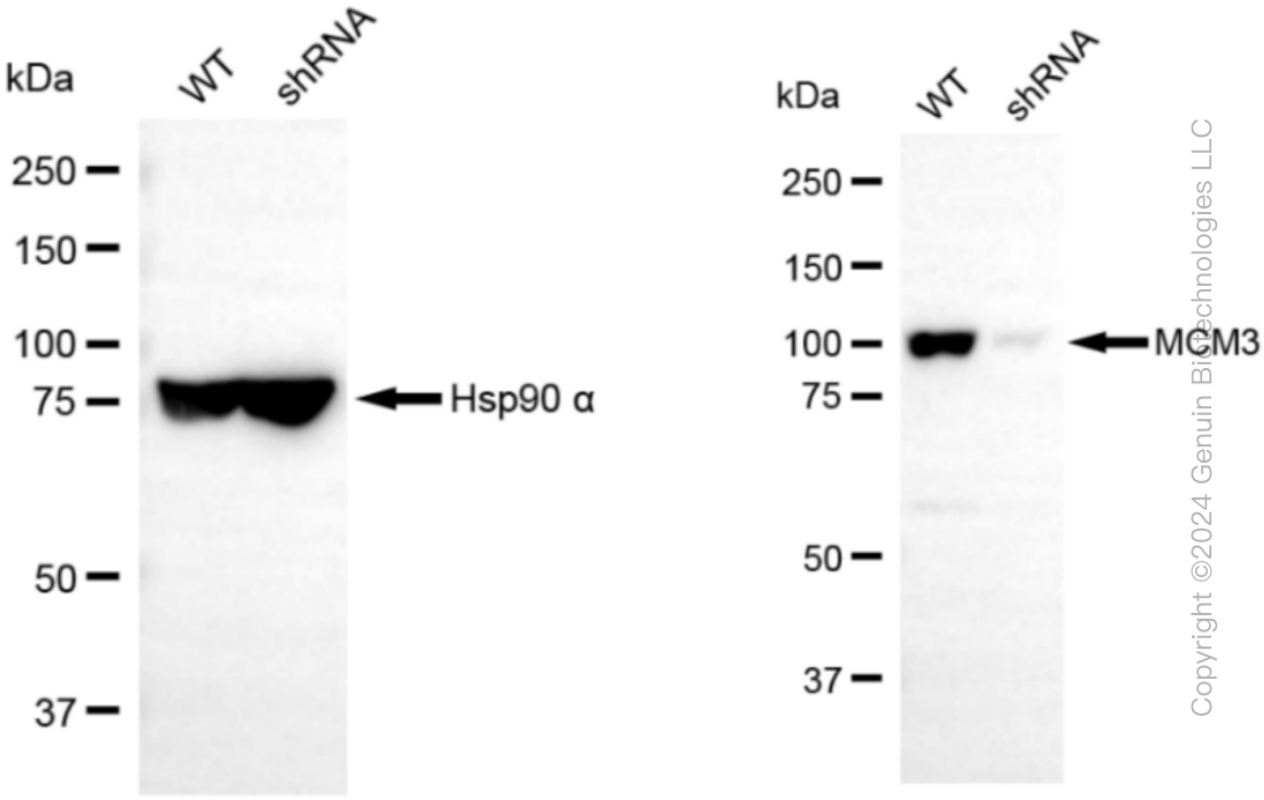
Validation Data

Human MCM3 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.27
Knock-Down	22.64
ΔCt (Ct_{KD}-Ct_{WT})	2.37
% mRNA Reduction	⬇ 81%

RT-qPCR analysis. HeLa cells were infected with MCM3-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. MCM3 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 MCM3 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.