Human MCM5 Knockdown Cell Line (WB-Validated)

Catalog #: C63302

Aliases

MCM5; Minichromosome Maintenance Complex Component 5; CDC46; DNA Replication Licensing Factor MCM5; CDC46 Homolog; P1-CDC46; MCM5 Minichromosome MaintenanceDeficient 5, Cell Division Cycle 46 (S. Cerevisiae); Minichromosome Maintenance Deficient (S. Cerevisiae) 5 (Cell Division Cycle 46); MCM5 Minichromosome Maintenance Deficient 5, Cell Division Cycle 46; Minichromosome Maintenance Deficient 5 (Cell Division Cycle 46); EC 3.6.4.12; MGORS8

Background

Gene Name: MCM5
NCBI Gene Entry: 4174

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MCM5 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.

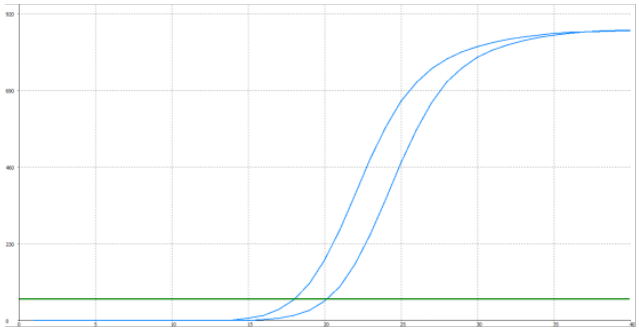
Instructions For Use

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

Note: This product is for research use only.

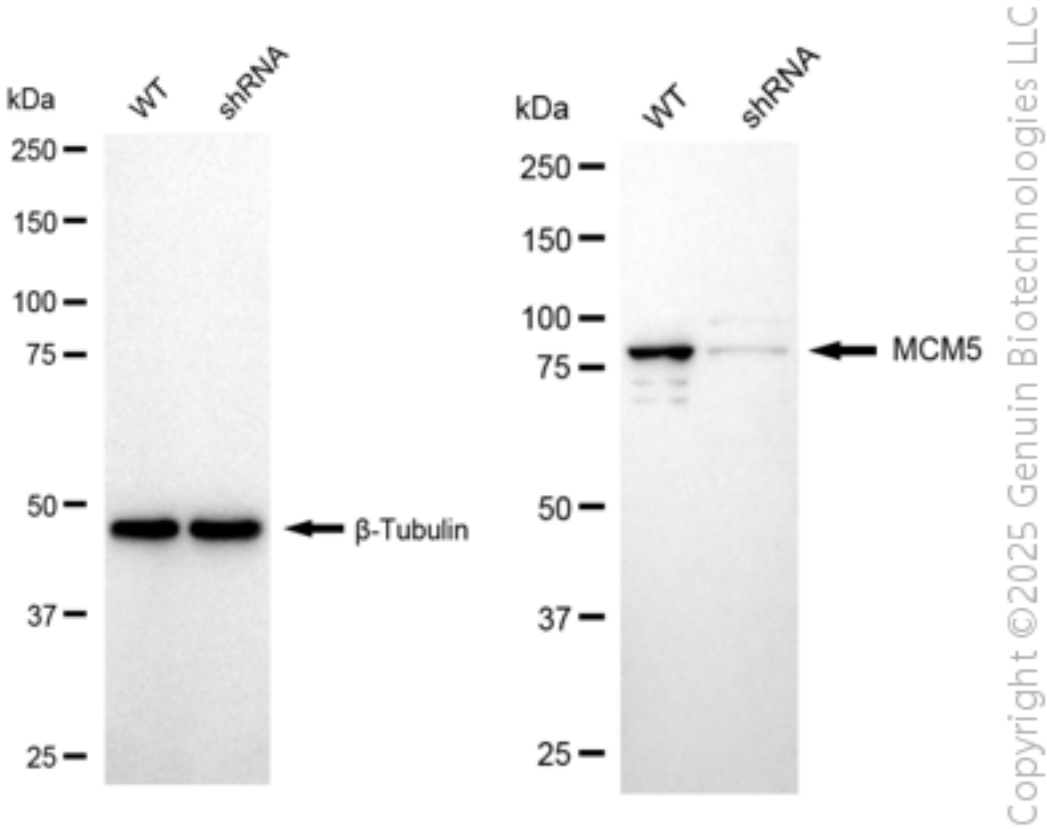
Validation Data

Human MCM5 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.97
Knock-Down	20.10
ΔCt (CtKD-CtWT)	2.13
% mRNA Reduction	77%

RT-qPCR analysis. HeLa cells were infected with MCM5-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. MCM5 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 against MCM5 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.