Human MCM6 Knockdown Cell Line (WB-Validated)

Catalog #: C61136

Aliases

MCM6; Minichromosome Maintenance Complex Component 6; Minichromosome Maintenance Deficient (Mis5, S. Pombe) 6; DNA Replication Licensing Factor MCM6; P105MCM; Mis5; MCM6 Minichromosome Maintenance Deficient 6 (MIS5 Homolog, S. Pombe) (S. Cerevisiae); MCM6 Minichromosome Maintenance Deficient 6 (MIS5 Homolog, S. Pombe); Minichromosome Maintenance Deficient 6 Homolog (S. Cerevisiae); MIS5 Homolog (S.Pombe); EC 3.6.4.12; MCG40308; MIS5

Background

Gene Name: MCM6
NCBI Gene Entry: 4175

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human MCM6 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.

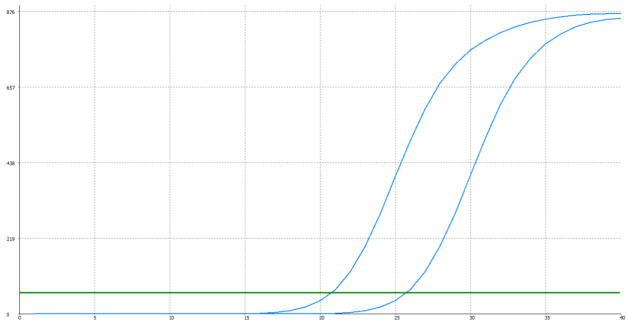
Instructions For Use

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

Note: This product is for research use only.

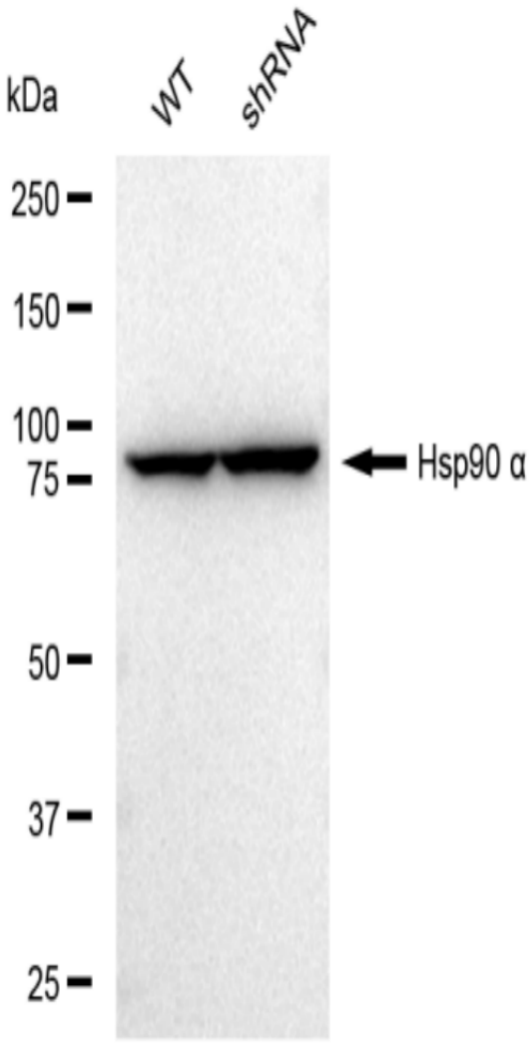
Validation Data

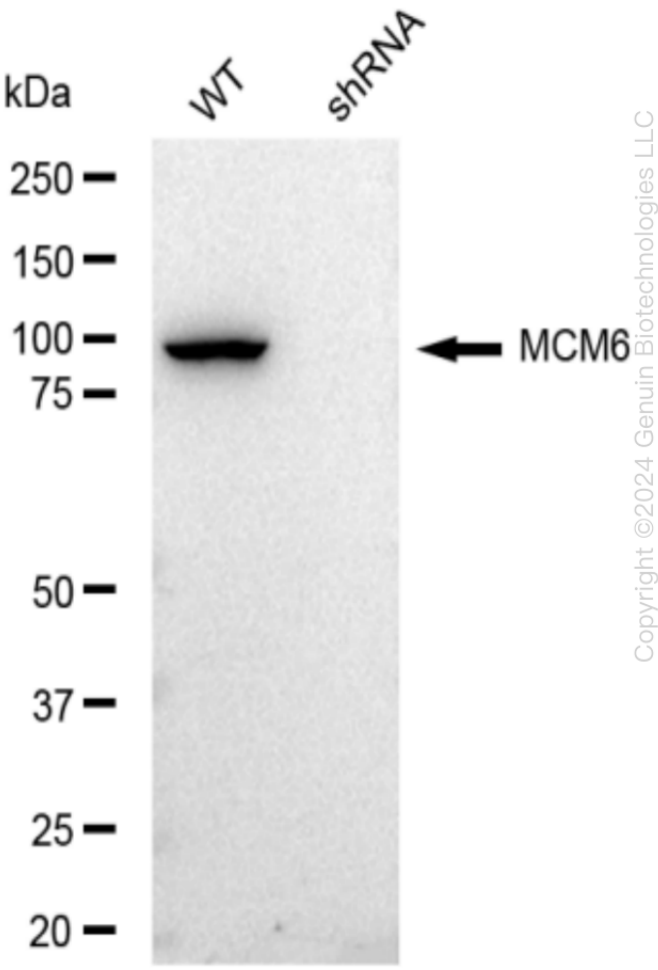
Human MCM6 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.75
Knock-Down	25.69
ΔCt (Ct_{KD}-Ct_{WT})	4.94
% mRNA Reduction	⬇ 97%

RT-qPCR analysis. HeLa cells were infected with MCM6-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%.





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Western blotting analysis. MCM6 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 (Cat#61136, 1:5,000) against MCM6 and Hsp90 α, 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).