Human CDC6 Knockdown Cell Line (WB-Validated)

Catalog #: C63263

Aliases

CDC6; Cell Division Cycle 6; CDC18L; Cell Division Control Protein 6 Homolog; Cdc18-Related Protein; CDC6-Related Protein; P62(Cdc6); HsCDC6; CDC6 (Cell Division Cycle 6, S. Cerevisiae) Homolog; CDC6 Cell Division Cycle 6 Homolog (S. Cerevisiae); Cell Division Cycle 6 Homolog (S. Cerevisiae); CDC6 Cell Division Cycle 6 Homolog; Cell Division Cycle 6 Homolog; HsCDC18; HsCdc18; MGORS5

Background

Gene Name: CDC6
NCBI Gene Entry: 990

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CDC6 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.

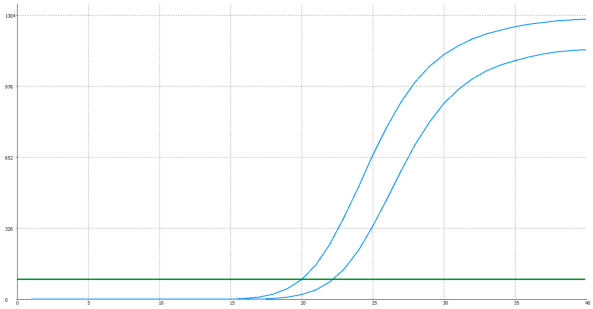
Instructions For Use

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

Note: This product is for research use only.

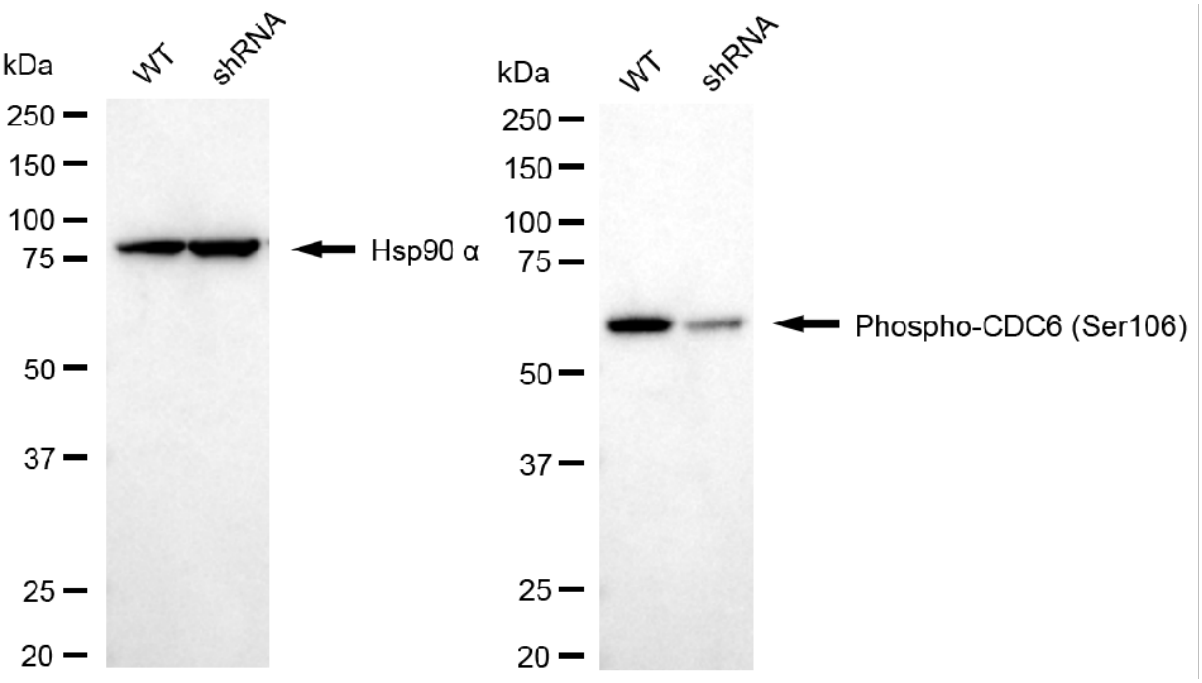
Validation Data

Human CDC6 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.01
Knock-Down	22.03
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	2.02
% mRNA Reduction	⬇ 75%

RT-qPCR analysis. HeLa cells were infected with CDC6-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. CDC6 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 CDC6 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.