Human CDK16 Knockdown Cell Line (WB-Validated)

Catalog #: C1216

Aliases

CDK16; Cyclin Dependent Kinase 16; PCTAIRE1; PCTGAIRE; PCTAIRE; PCTK1; Serine/Threonine-Protein; Kinase PCTAIRE-1; Cell Division Protein Kinase 16; PCTAIRE-Motif Protein Kinase; Cyclin-Dependent Kinase 16; EC 2.7.11.22; FLJ16665; Testis Secretory Sperm-Binding Protein Li 224n; Serine/Threonine-Protein Kinase; PCTAIRE Protein Kinase; EC 2.7.11

Background

Gene Name: CDK16
NCBI Gene Entry: 5127

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CDK16 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.

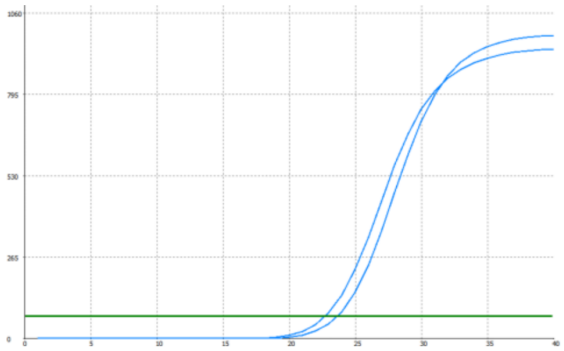
Instructions For Use

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 CDK16 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	22.56
Knock-Down	23.55
ΔCt (Ct_{KD}-Ct_{WT})	0.99
% mRNA Reduction	⬇ 50%

RT-qPCR analysis. HeLa cells were infected with CDK16-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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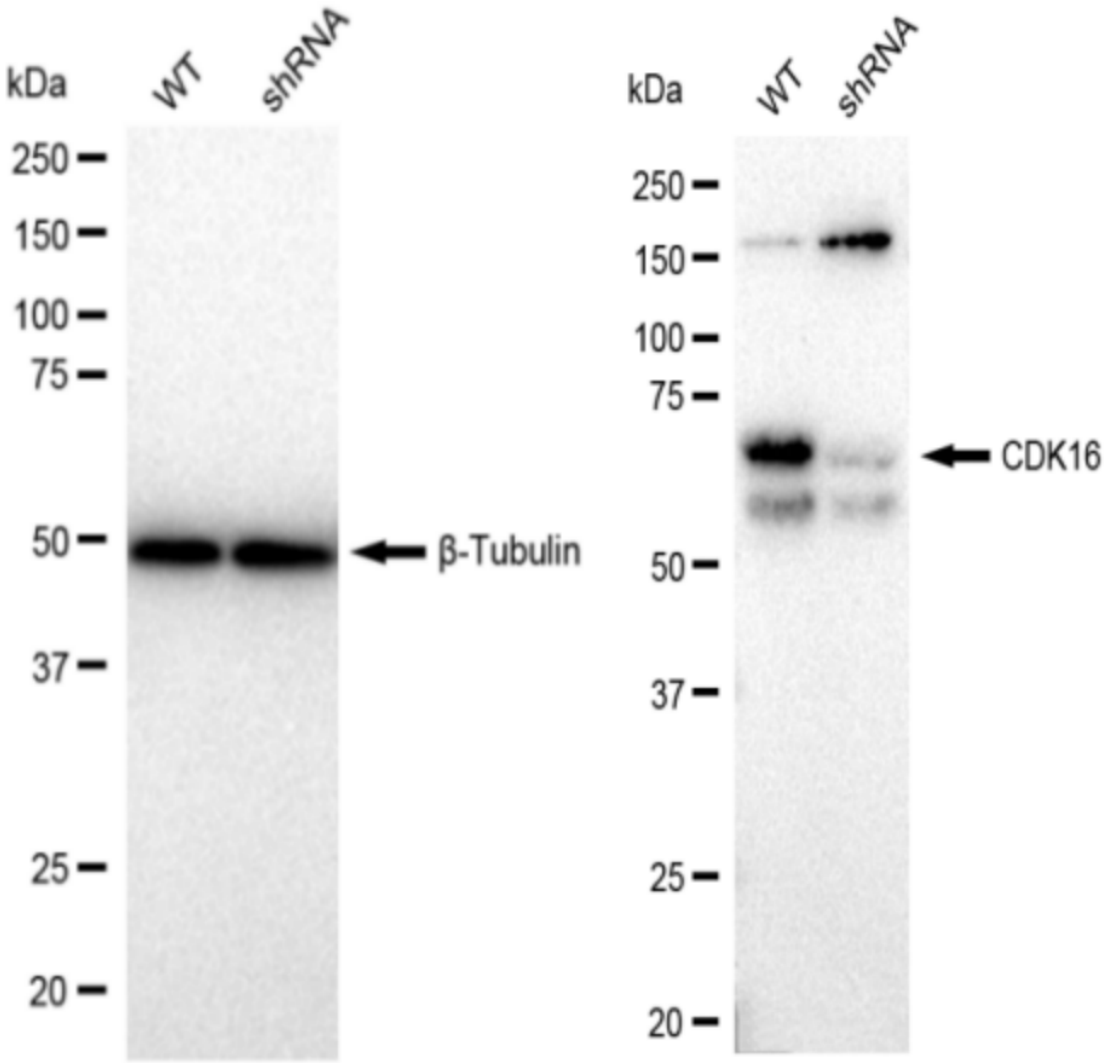

Western blotting analysis. CDK16 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#62241, 1:5,000) against CDK16 and β-Tubulin, respectively, followed 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).