Human POLDIP2 Knockdown Cell Line (WB-Validated)

Catalog #: C65591

Aliases

POLDIP2; DNA Polymerase Delta Interacting Protein 2; PDIP38; Polymerase (DNA-Directed), Delta Interacting Protein 2; 38 KDa DNA Polymerase Delta Interaction Protein; Polymerase Delta-Interacting Protein 2; DKFZP586F1524; POLD4; P38; Polymerase (DNA) Delta Interacting Protein 2; Polymerase Delta Interacting Protein 38

Background

Gene Name: POLDIP2
NCBI Gene Entry: 26073

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human POLDIP2 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.

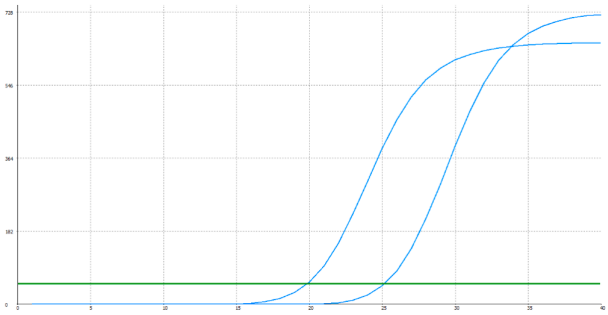
Instructions For Use

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

Note: This product is for research use only.

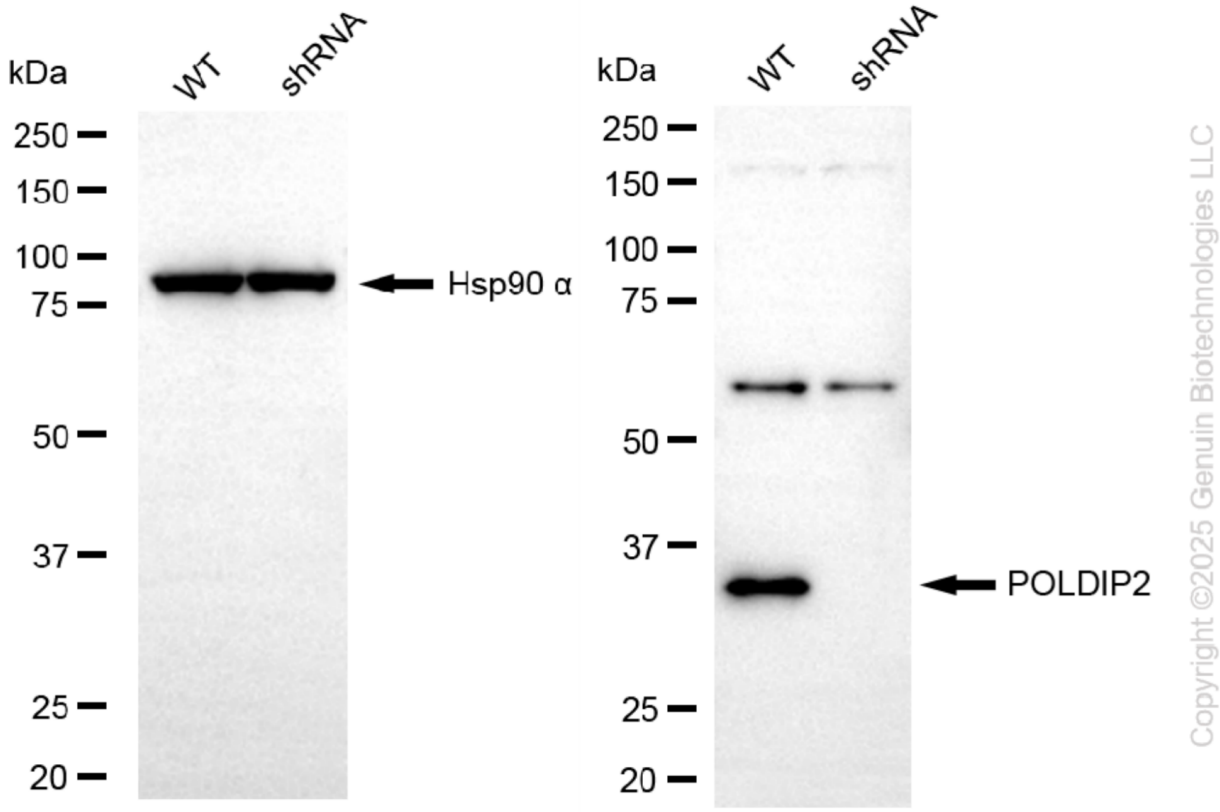
Validation Data

Human POLDIP2 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.67
Knock-Down	25.15
ΔCt (Ct_{KD}-Ct_{WT})	5.48
% mRNA Reduction	⬇ 98%

RT-qPCR analysis. HeLa cells were infected with POLDIP2-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.POLDIP2 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 POLDIP2 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using NaQ™ ECL Substrate Kit.