Human DCP1A Knockdown Cell Line (WB-Validated)

Catalog #: C61925

Aliases

DCP1A; Decapping MRNA 1A; SMIF; HSA275986; SMAD4IP1; Smad4-Interacting Transcriptional Co-Activator; Transcription Factor SMIF; MRNA-Decapping Enzyme 1A; DCP1 Decapping Enzyme Homolog A (S. Cerevisiae); Putative Protein Product Of Nbla00360; DCP1 Decapping Enzyme-Like Protein A; DCP1 Decapping Enzyme Homolog A; Decapping Enzyme HDcp1a; EC 3.6.1.62; Nbla00360

Background

Gene Name: DCP1A
NCBI Gene Entry: 55802

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DCP1A 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.

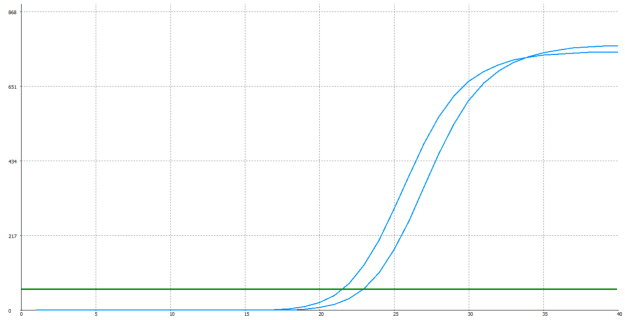
Instructions For Use

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

Note: This product is for research use only.

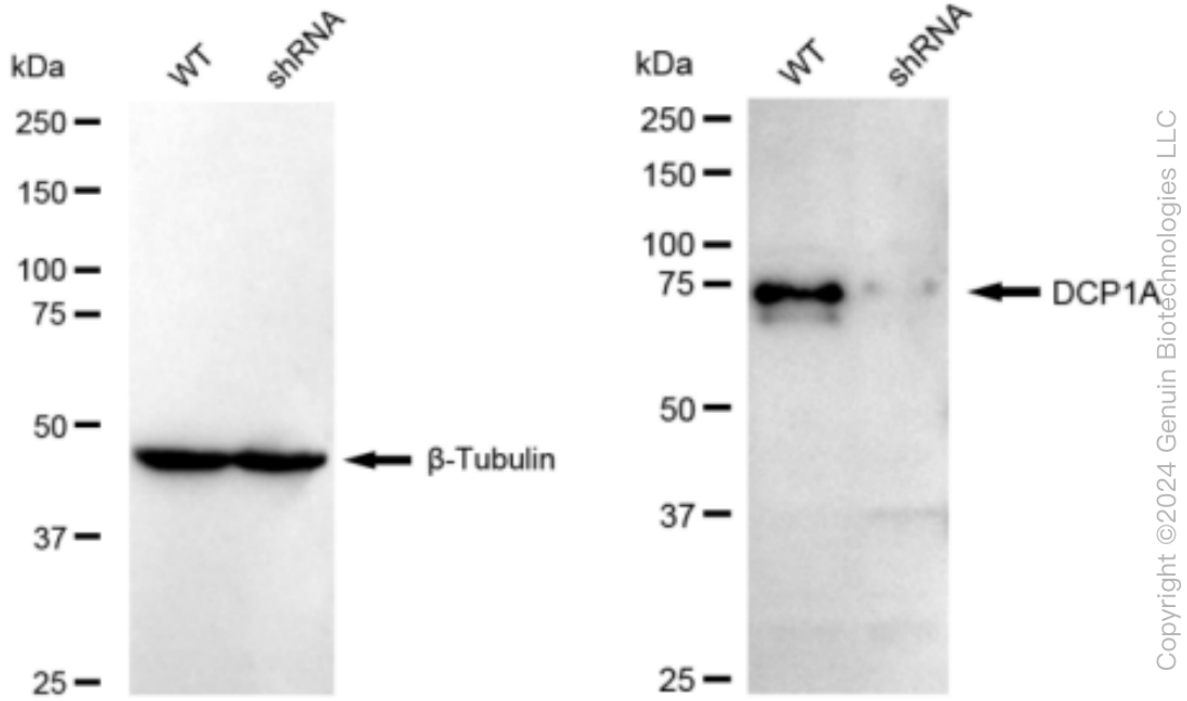
Validation Data

Human DCP1A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.30
Knock-Down	22.71
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	1.41
% mRNA Reduction	⬇ 62%

RT-qPCR analysis. HT-1080 cells were infected with DCP1A-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. DCP1A protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against DCP1A and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.