

Human DPYD Knockdown Cell Line (WB-Validated)



Catalog #: C61935

Aliases

DPYD; Dihydropyrimidine Dehydrogenase; DPD; Dihydrothymine Dehydrogenase; Dihydrouracil Dehydrogenase ; Dihydropyrimidine Dehydrogenase [NADP(+)]; EC 1.3.1.2; DHPDHase; DHPDHASE; DYPD; DHP

Background

Gene Name: DPYD

NCBI Gene Entry: [1806](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DPYD 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

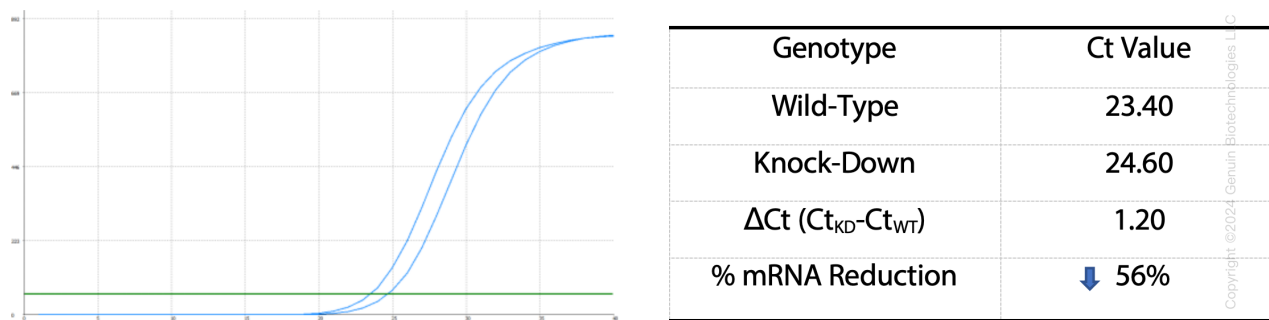
SUPPORT

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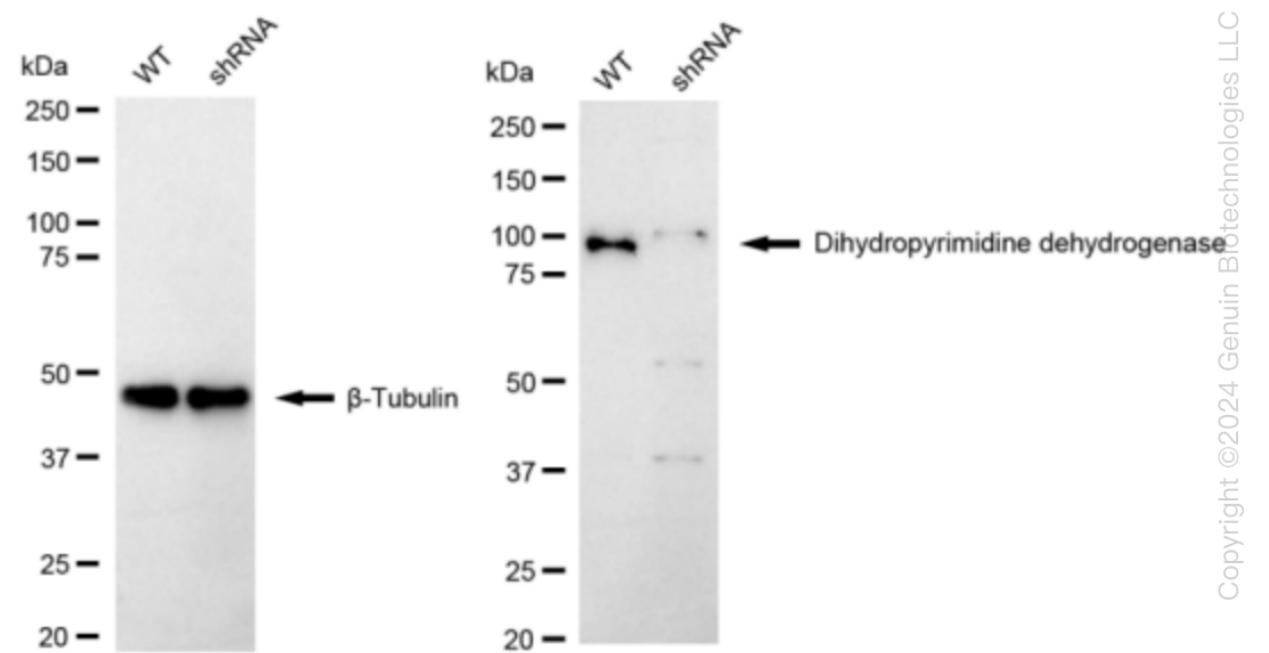
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RT-qPCR analysis. HeLa cells were infected with DPYD-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. DPYD 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#61151, 1:5,000) against DPYD 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).