Human DDX50 Knockdown Cell Line (WB-Validated)

Catalog #: C63883

Aliases

DDX50; DExD-Box Helicase 50; RH-II/GuB; GU2; GUB; DEAD (Asp-Glu-Ala-Asp) Box Polypeptide 50; ATP-Dependent RNA Helicase DDX50; DEAD-Box Helicase 50; DEAD Box Protein 50; MGC3199; Gu-Beta; Malignant Cell Derived RNA Helicase; RNA Helicase II/Gu Beta; Nucleolar Protein GU2; Nucleolar Protein Gu2; EC 3.6.4.13; EC 3.6.1; Mcdrh

Background

Gene Name: DDX50
NCBI Gene Entry: 79009

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DDX50 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.

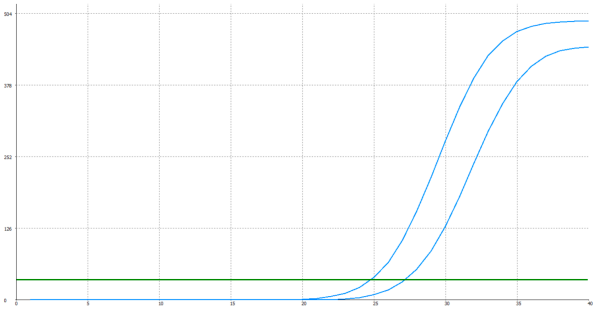
Instructions For Use

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

Note: This product is for research use only.

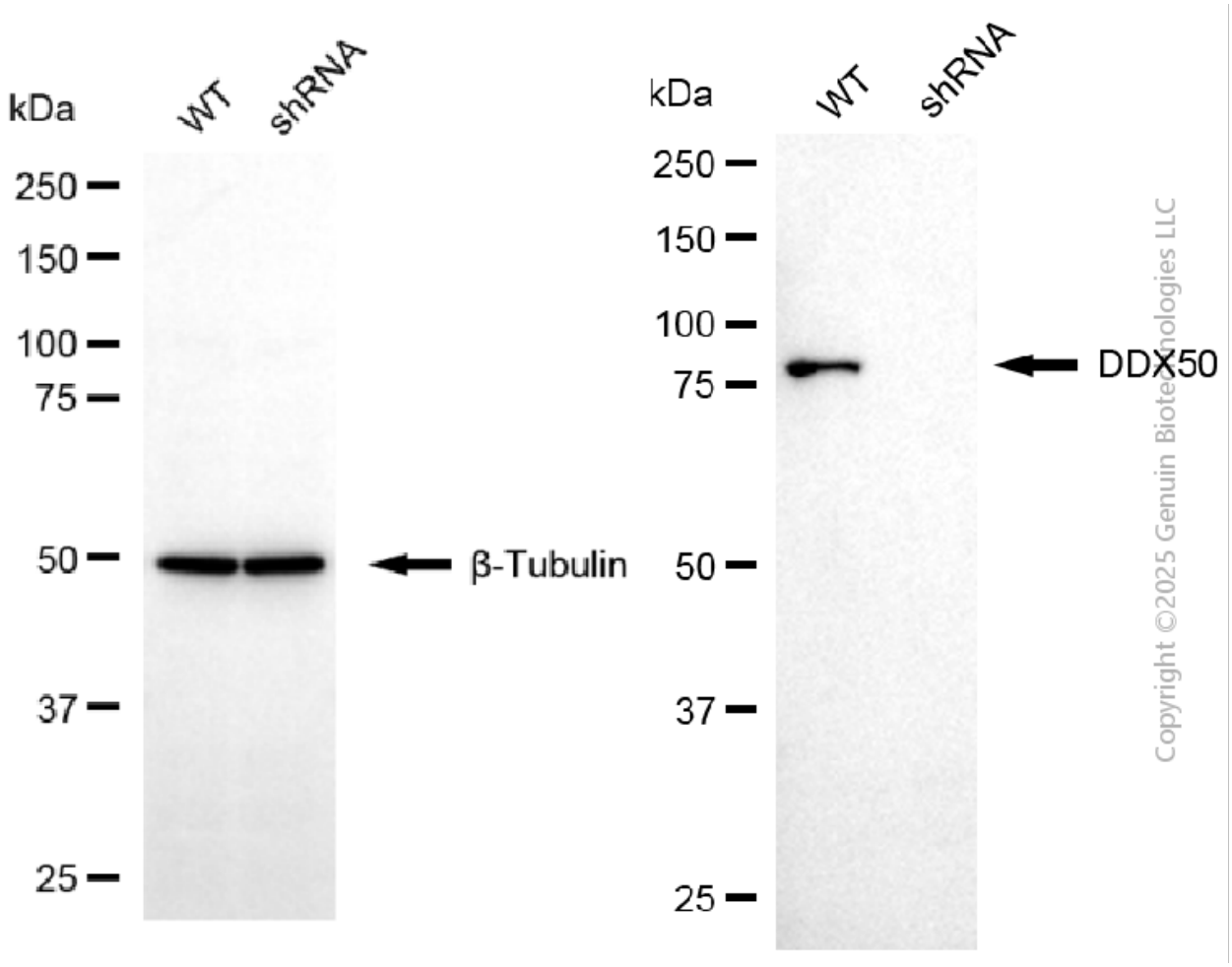
Validation Data

Human DDX50 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.74
Knock-Down	27.00
ΔCt (Ct_{KD}-Ct_{WT})	2.26
% mRNA Reduction	⬇ 79%

RT-qPCR analysis. HT-1080 cells were infected with DDX50-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. DDX50 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 DDX50 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.