Human DDB1 Knockdown Cell Line (WB-Validated)

Catalog #: C61221

Aliases

DDB1; Damage Specific DNA Binding Protein 1; Xeroderma Pigmentosum Group E-Complementing Protein ; UV-Damaged DNA-Binding Protein 1; UV-Damaged DNA-Binding Factor; DNA Damage-Binding Protein 1; DNA Damage-Binding Protein A; HBV X-Associated Protein 1; XPE-Binding Factor; DDB P127 Subunit; UV-DDB 1; XPE-BF; XAP-1; XAP1; Damage-Specific DNA Binding Protein 1 (127kD); Damage-Specific DNA Binding Protein 1, 127kDa; Damage-Specific DNA-Binding Protein 1; UV-DDB1; WHIKERS; DDBA; XPCE; DDBa; XPCe; XPE

Background

Gene Name: DDB1
NCBI Gene Entry: 1642

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DDB1 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.

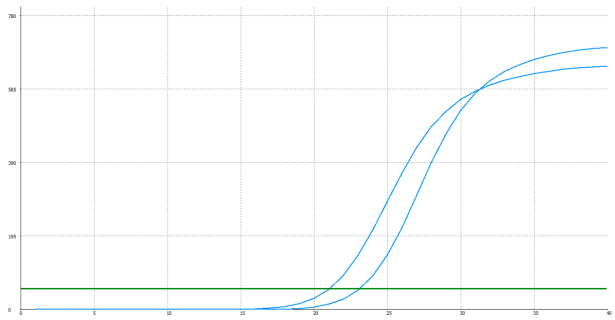
Instructions For Use

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

Note: This product is for research use only.

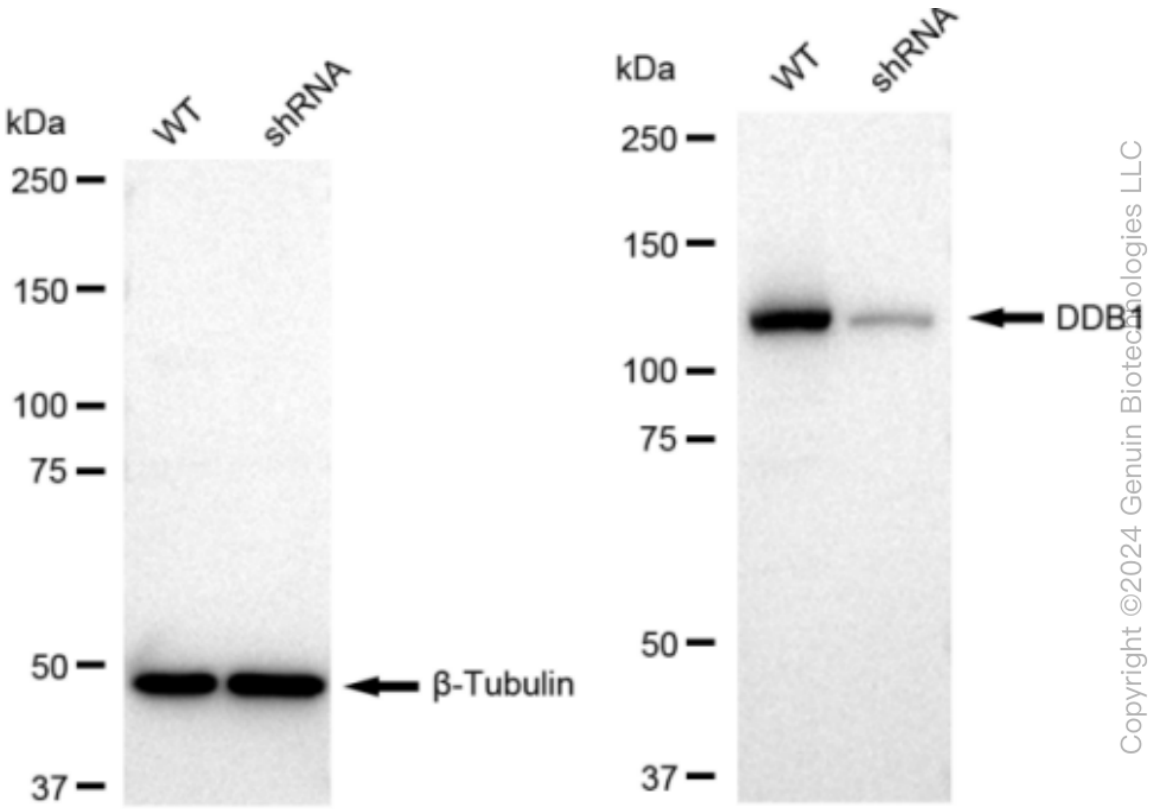
Validation Data

Human DDB1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.69
Knock-Down	22.94
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	2.25
% mRNA Reduction	⬇ 79%

RT-qPCR analysis. HeLa cells were infected with DDB1-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. DDB1 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 against DDB1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.