Human ERCC1 Knockdown Cell Line (WB-Validated)

Catalog #: C9611

Aliases

ERCC1; ERCC Excision Repair 1, Endonuclease Non-Catalytic Subunit; RAD10; Excision Repair Cross-Complementing Rodent Repair Deficiency, Complementation Group 1 (Includes Overlapping Antisense Sequence); Excision Repair Cross-Complementation Group 1; DNA Excision Repair Protein ERCC-1; COFS4; UV20

Background

Gene Name: ERCC1
NCBI Gene Entry: 2067

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ERCC1 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.

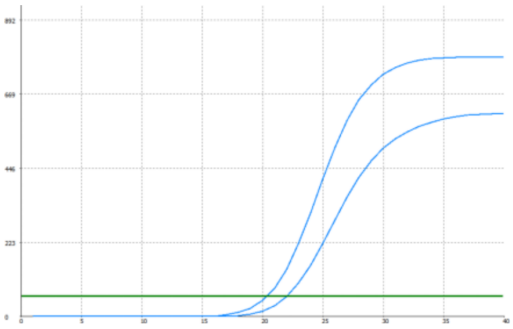
Instructions For Use

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

Note: This product is for research use only.

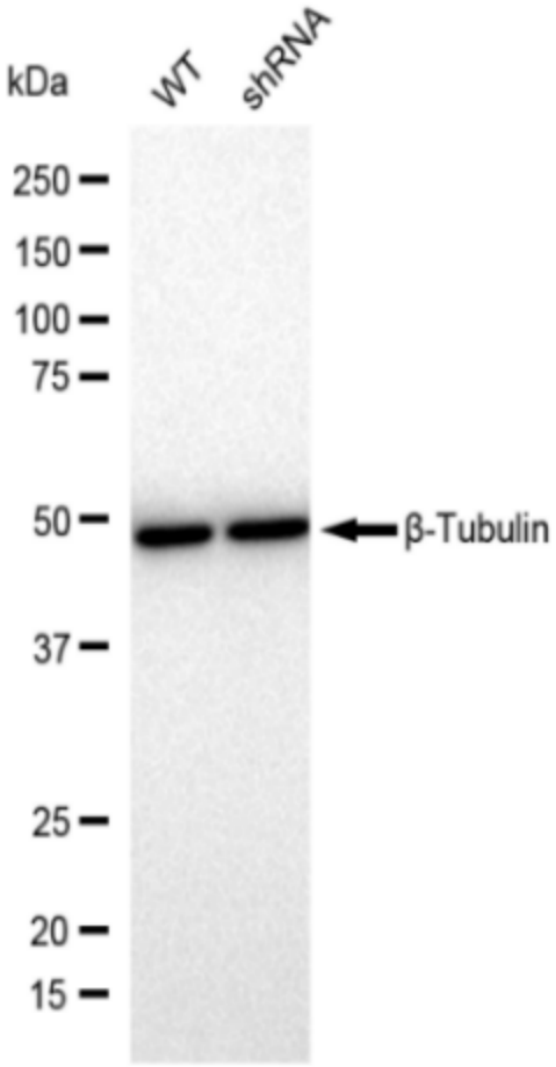
Validation Data

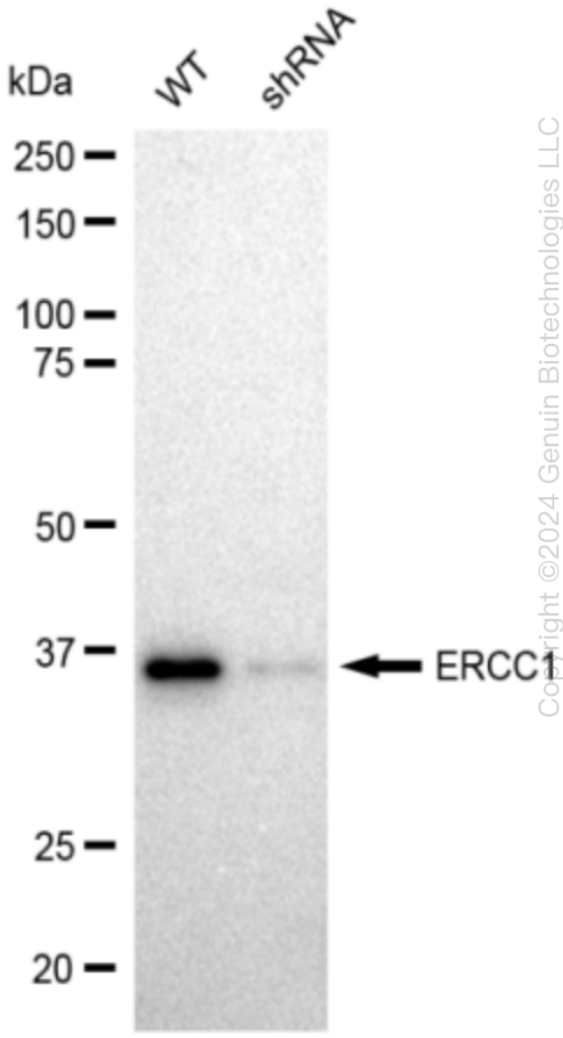
Human ERCC1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.20
Knock-Down	21.38
ΔCt (Ct_{KD}-Ct_{WT})	1.18
% mRNA Reduction	⬇ 56%

RT-qPCR analysis. HeLa cells were infected with ERCC1-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%.





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Western blotting analysis. ERCC1 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#69611, 1:5,000) against ERCC1 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).