Human RAD50 Knockdown Cell Line (WB-Validated)

Catalog #: C61695

Aliases

RAD50; RAD50 Double Strand Break Repair Protein; RAD50 Homolog, Double Strand Break Repair Protein; DNA Repair Protein RAD50; RAD50-2; HRad50; HRAD50; RAD50 (S. Cerevisiae) Homolog; RAD50 Homolog (S. Cerevisiae); EC 3.6.3.27; EC 3.6.1.15; EC 3.6.-.-; EC 3.6.3; RAD502; NBSLD

Background

Gene Name: RAD50
NCBI Gene Entry: 10111

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human RAD50 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.

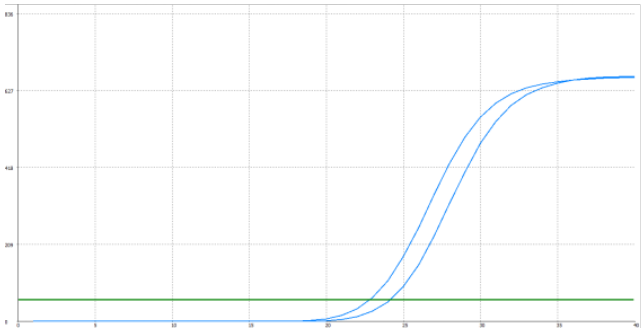
Instructions For Use

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

Note: This product is for research use only.

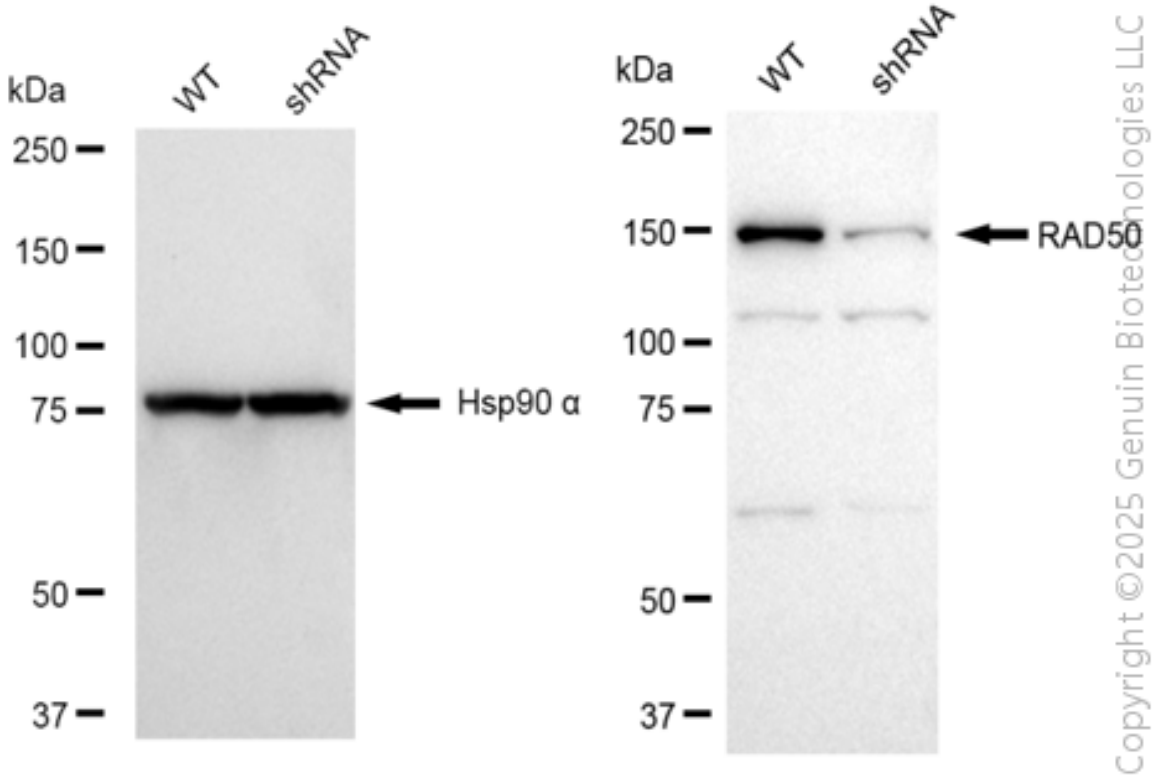
Validation Data

Human RAD50 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	22.44
Knock-Down	23.77
ΔCt (CtKD-CtWT)	1.33
% mRNA Reduction	60%

RT-qPCR analysis. HT-1080 cells were infected with RAD50-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. RAD50 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against RAD50 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.