Human RAD21 Knockdown Cell Line (WB-Validated)

Catalog #: C62556

Aliases

RAD21; RAD21 Cohesin Complex Component; HHR21; SCC1; KIAA0078; Double-Strand-Break Repair Protein Rad21 Homolog; Sister Chromatid Cohesion 1; Nuclear Matrix Protein 1; SCC1 Homolog; Kleisin; NXP-1; HR21; NXP1; Protein Involved In DNA Double-Strand Break Repair; RAD21 (S. Pombe) Homolog; RAD21 Homolog (S. Pombe);
RAD21 Homolog; HRAD21; CDLS4; MCD1; MGS

Background

Gene Name: RAD21
NCBI Gene Entry: 5885

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human RAD21 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.

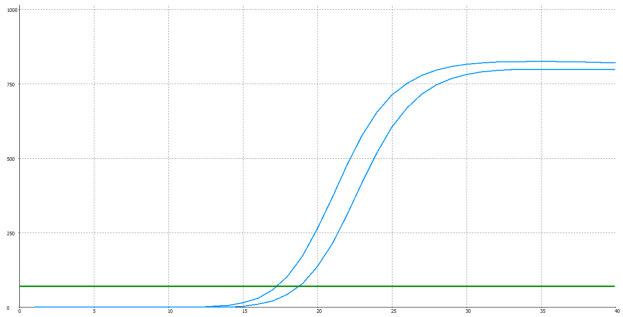
Instructions For Use

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

Note: This product is for research use only.

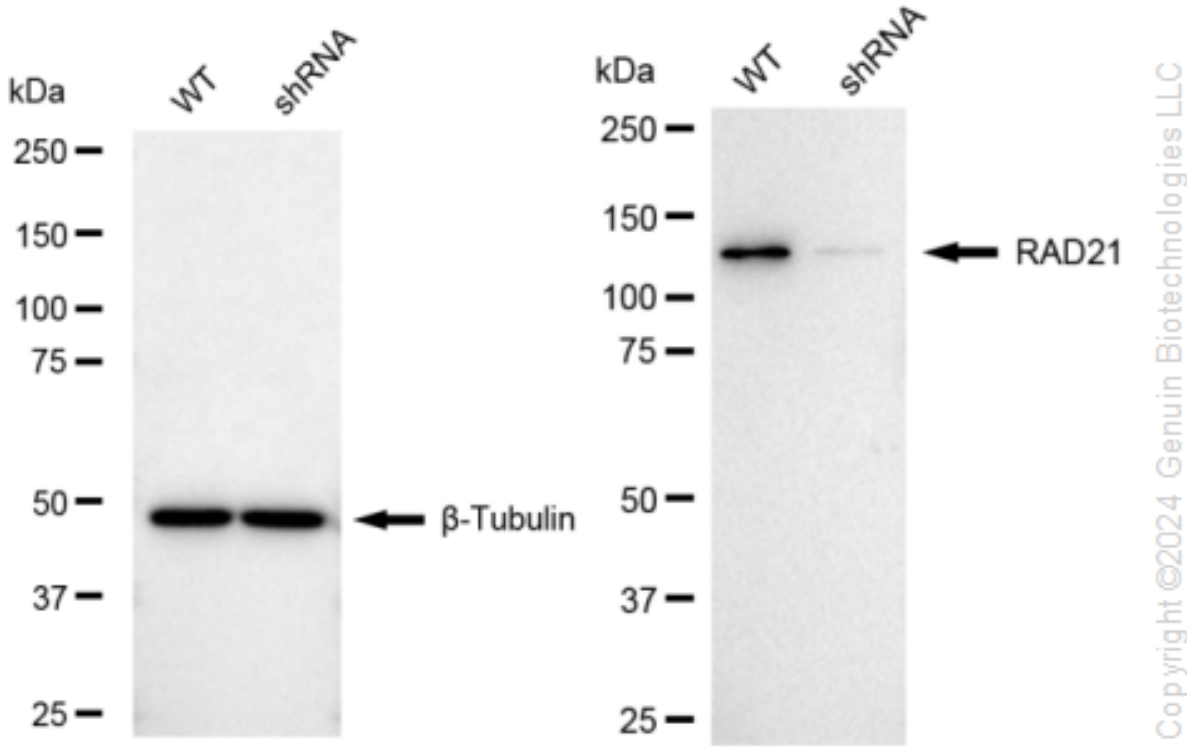
Validation Data

Human RAD21 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.01
Knock-Down	18.38
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	1.37
% mRNA Reduction	⬇ 61%

RT-qPCR analysis. HeLa cells were infected with RAD21-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. RAD21 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 RAD21 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.