

Human RPA1 Knockdown Cell Line (WB-Validated)



Catalog #: C61865

Aliases

RPA1; Replication Protein A1; REPA1; RPA70; HSSB; RF-A; RP-A; Replication Protein A 70 KDa DNA-Binding Subunit; Single-Stranded DNA-Binding Protein; Replication Factor A Protein 1; Replication Protein A1, 70kDa; RF-A Protein 1; RP-A P70; Replication Protein A1 (70kD); PFBMFT6; MSTP075; MST075

Background

Gene Name: RPA1

NCBI Gene Entry: [6117](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human RPA1 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

SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

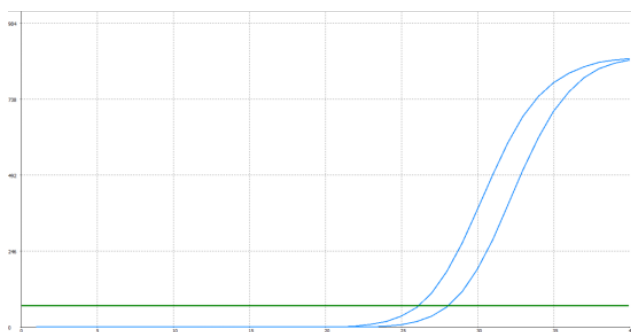
ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM

Human RPA1 Knockdown Cell Line (WB-Validated)

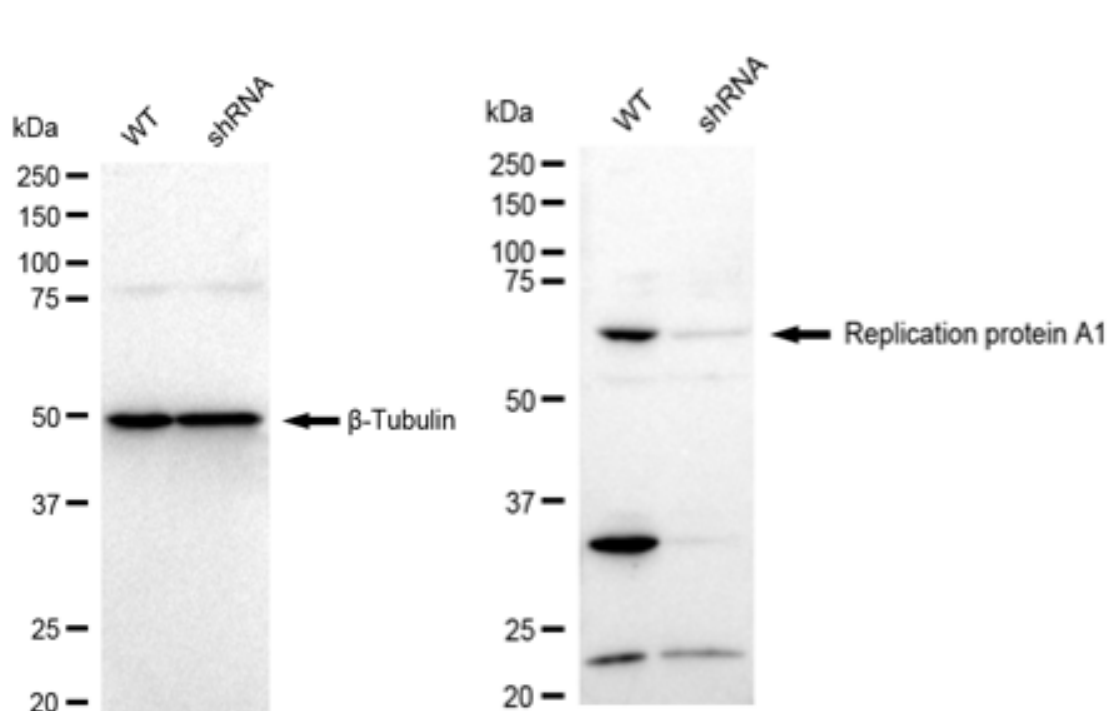
PAGE 2



Genotype	Ct Value
Wild-Type	25.92
Knock-Down	27.86
Δ Ct (CtKD-CtWT)	1.94
% mRNA Reduction	74%

Copyright ©2025 Genuin Biotechnologies LLC

RT-qPCR analysis. HeLa cells were infected with RPA1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$.



Copyright ©2025 Genuin Biotechnologies LLC

Western blotting analysis. RPA1 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 RPA1 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM