Human RRM1 Knockdown Cell Line (WB-Validated)

Catalog #: C69651

Aliases

Ribonucleotide Reductase Catalytic Subunit M1; Ribonucleoside-Diphosphate Reductase Large Subunit; Ribonucleoside-Diphosphate Reductase Subunit M1; Ribonucleotide Reductase M1 Polypeptide; EC 1.17.4.1; RR1; Ribonucleotide Reductase Large Subunit; Ribonucleotide Reductase, R1 Subunit; RIR1; R1

Background

Gene Name: RRM1
NCBI Gene Entry: 6240

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human RRM1 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.

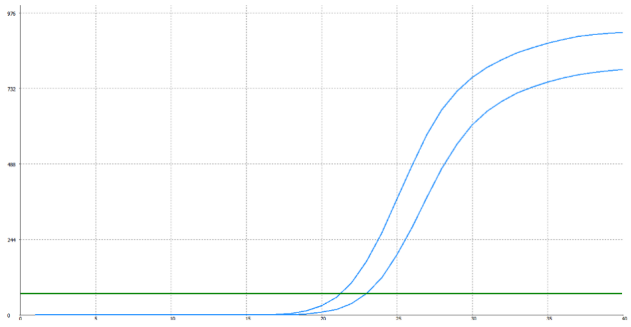
Instructions For Use

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

Note: This product is for research use only.

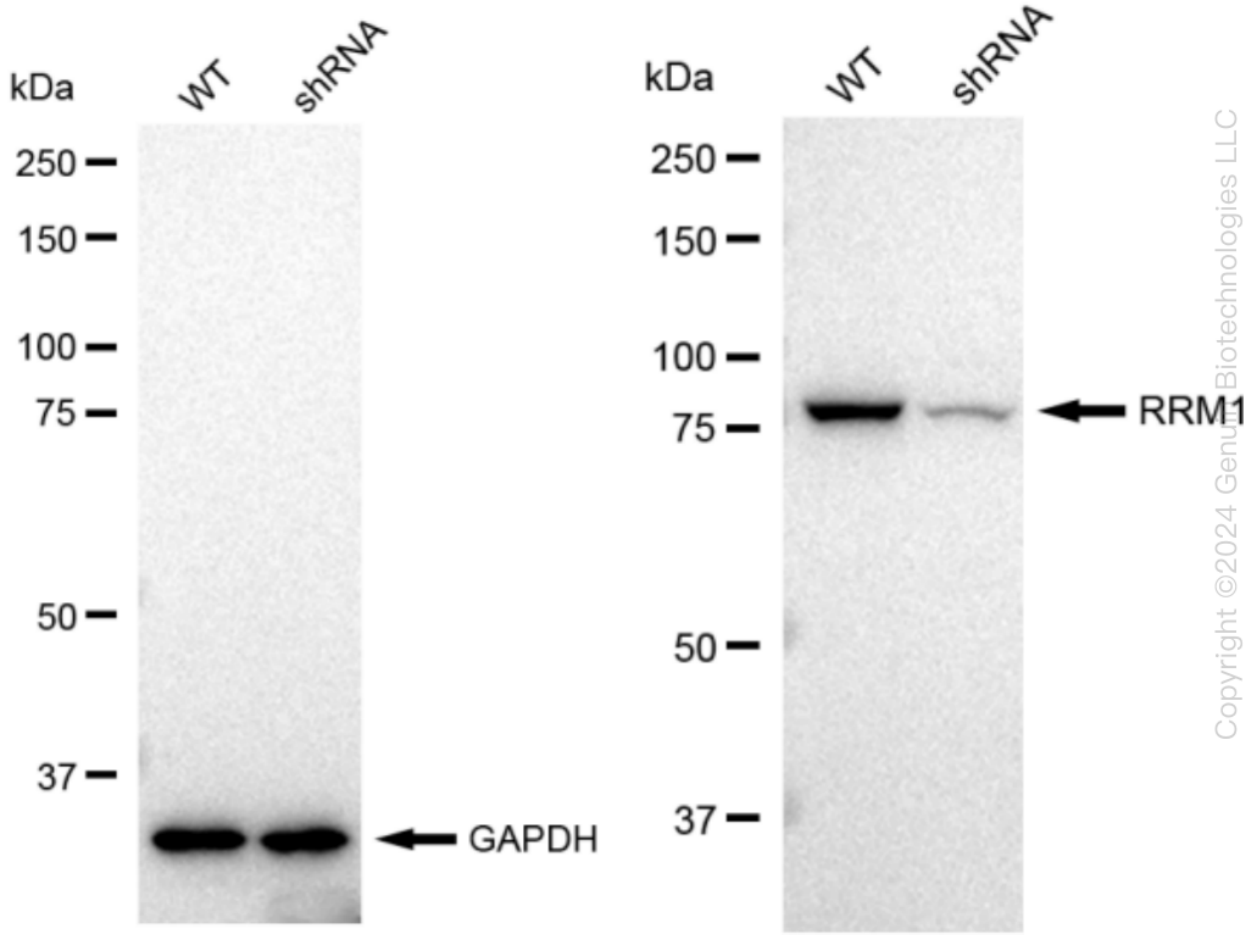
Validation Data

Human RRM1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.17
Knock-Down	22.59
ΔCt (Ct_{KD}-Ct_{WT})	1.42
% mRNA Reduction	⬇ 63%

RT-qPCR analysis. HeLa cells were infected with RRM1-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. RRM1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies (Cat#69651, 1:5,000) against RRM1 and GAPDH, 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).