# Human RNF40 Knockdown Cell Line (WB-Validated)

# Catalog #: C62492

## Aliases

RNF40; Ring Finger Protein 40; RBP95; BRE1B; KIAA0661; STARING; 95 KDa Retinoblastoma-Associated Protein; RING-Type E3 Ubiquitin Transferase BRE1B; E3 Ubiquitin-Protein Ligase BRE1B; BRE1-B; Ring Finger Protein 40, E3 Ubiquitin Protein Ligase; BRE1 E3 Ubiquitin Ligase Homolog B (S. Cerevisiae); 95 KDa Retinoblastoma Protein Binding Protein; BRE1 E3 Ubiquitin Ligase Homolog B; RING Finger Protein 40; Rb-Associated Protein; EC 2.3.2.27; EC 6.3.2

## Background

Gene Name: RNF40
NCBI Gene Entry: 9810

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human RNF40 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.

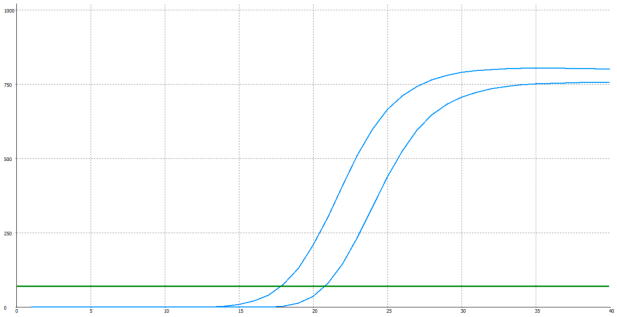
## Instructions For Use

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

**Note:** This product is for research use only.

### Validation Data

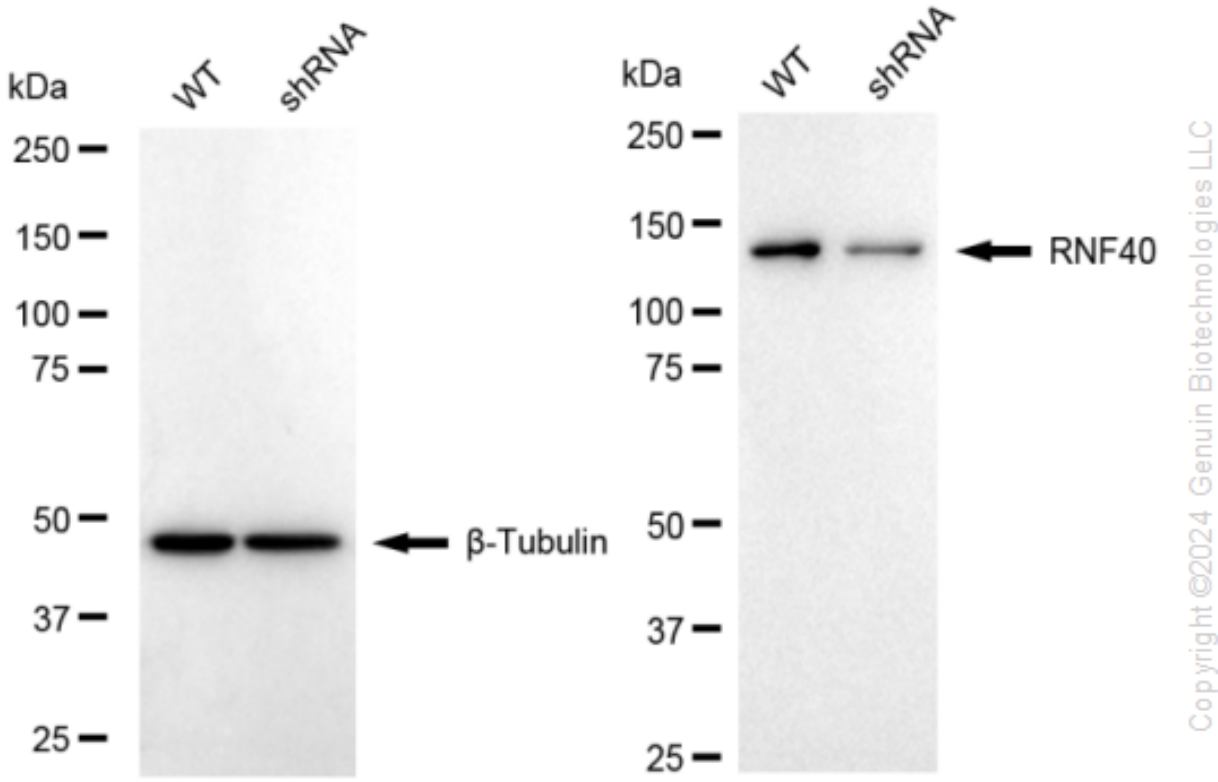
# Human RNF40 Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 17.46 |
| Knock-Down | 20.38 |
| $\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$ | 2.92 |
| % mRNA Reduction | ⬇ 87% |



RT-qPCR analysis. HeLa cells were infected with RNF40-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. RNF40 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 RNF40 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.