Human RPN1 Knockdown Cell Line (WB-Validated)

Catalog #: C62490

Aliases

RPN1; Ribophorin I; OST1; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase Subunit 1; Oligosaccharyltransferase Complex Subunit (Non-Catalytic); Ribophorin-1; RPN-I; Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase 67 KDa Subunit; Dolichyl-Diphosphooligosaccharide-Protein Glycosyltransferase 67 KDa Subunit; Oligosaccharyltransferase 1 Homolog (S. Cerevisiae); Oligosaccharyltransferase 1 Homolog; EC 2.4.1.119; RBPH1

Background

Gene Name: RPN1
NCBI Gene Entry: 6184

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human RPN1 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.

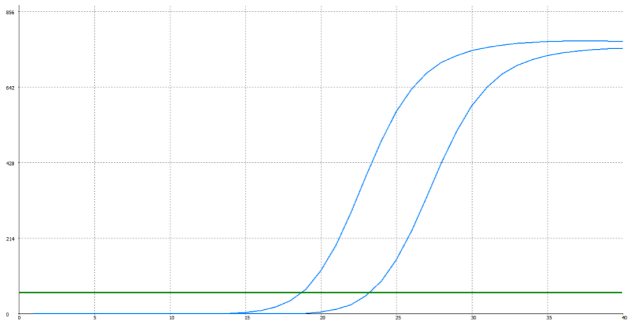
Instructions For Use

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

Note: This product is for research use only.

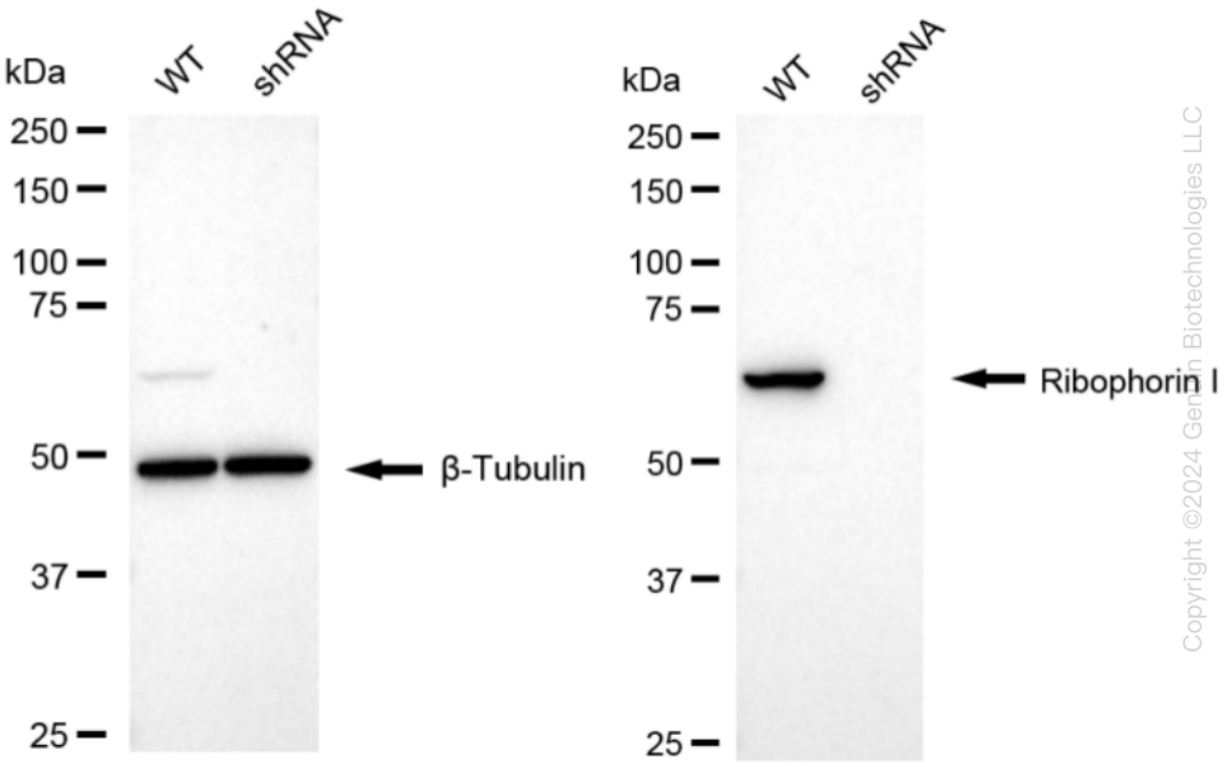
Validation Data

Human RPN1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	18.53
Knock-Down	23.05
ΔCt (Ct_{KD}-Ct_{WT})	4.52
% mRNA Reduction	⬇ 96%

RT-qPCR analysis. HeLa cells were infected with RPN1-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. RPN1 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 RPN1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.