# Human RHOA Knockdown Cell Line (WB-Validated)

# Catalog #: C62443

## Aliases

Ras Homolog Family Member A; RHOH12; Rho12; ARH12; ARHA; Transforming Protein RhoA; Epididymis Secretory Sperm Binding Protein; Ras Homolog Gene Family, Member A; Aplysia Ras-Related Homolog 12; Small GTP Binding Protein RhoA; Rho CDNA Clone 12; Oncogene RHO H12; EC 3.6.5.2; EDFAOB; RHO12; H12

## Background

Gene Name: RHOA
NCBI Gene Entry: 387

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human RHOA 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.

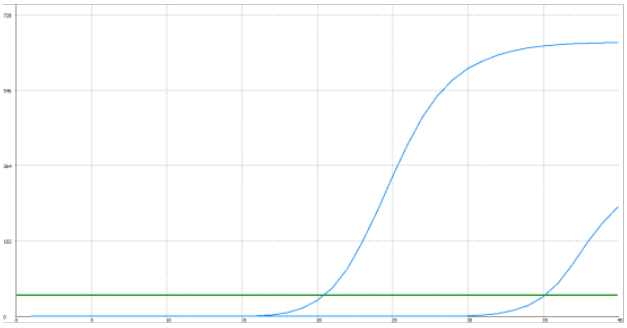
## Instructions For Use

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

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

### Validation Data

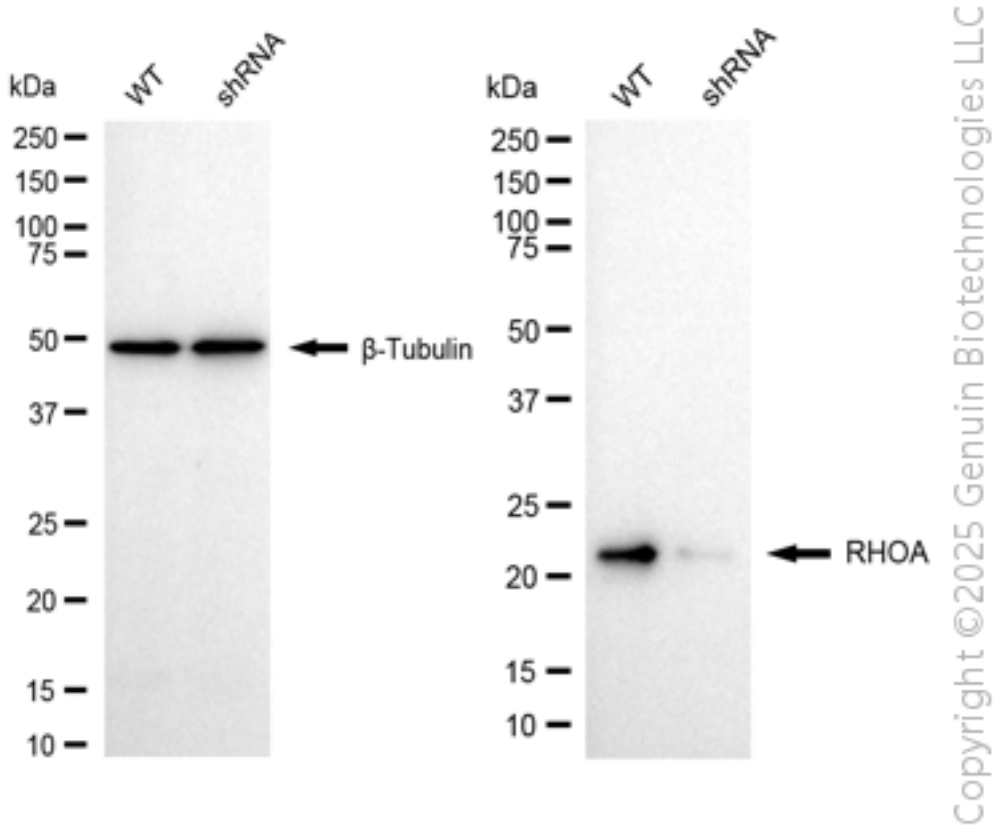
# Human RHOA Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 20.29 |
| Knock-Down | 33.28 |
| ΔCt (CtKD-CtWT) | 12.99 |
| % mRNA Reduction | 99.9% |



RT-qPCR analysis. HT-1080 cells were infected with RHOA-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. RHOA protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against RHOA and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.