# Human GRK2 Knockdown Cell Line (WB-Validated)

# Catalog #: C63642

## Aliases

GRK2; G Protein-Coupled Receptor Kinase 2; BARK1; ADRBK1; Beta-Adrenergic Receptor Kinase 1; EC 2.7.11.15; Beta-ARK-1; Adrenergic, Beta, Receptor Kinase 1; G-Protein Coupled Receptor Kinase 2; Adrenergic Beta Receptor Kinase 1; BETA-ARK1; EC 2.7.11; BARK

## Background

Gene Name: GRK2
NCBI Gene Entry: 156

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human GRK2 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.

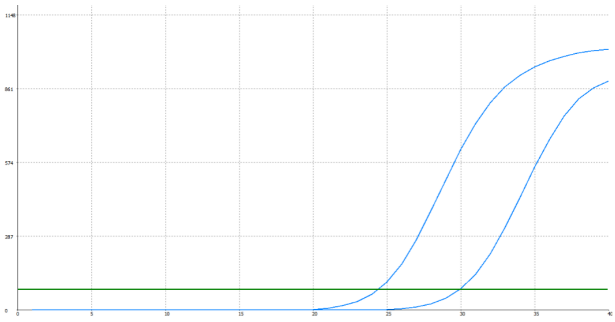
## Instructions For Use

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

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

### Validation Data

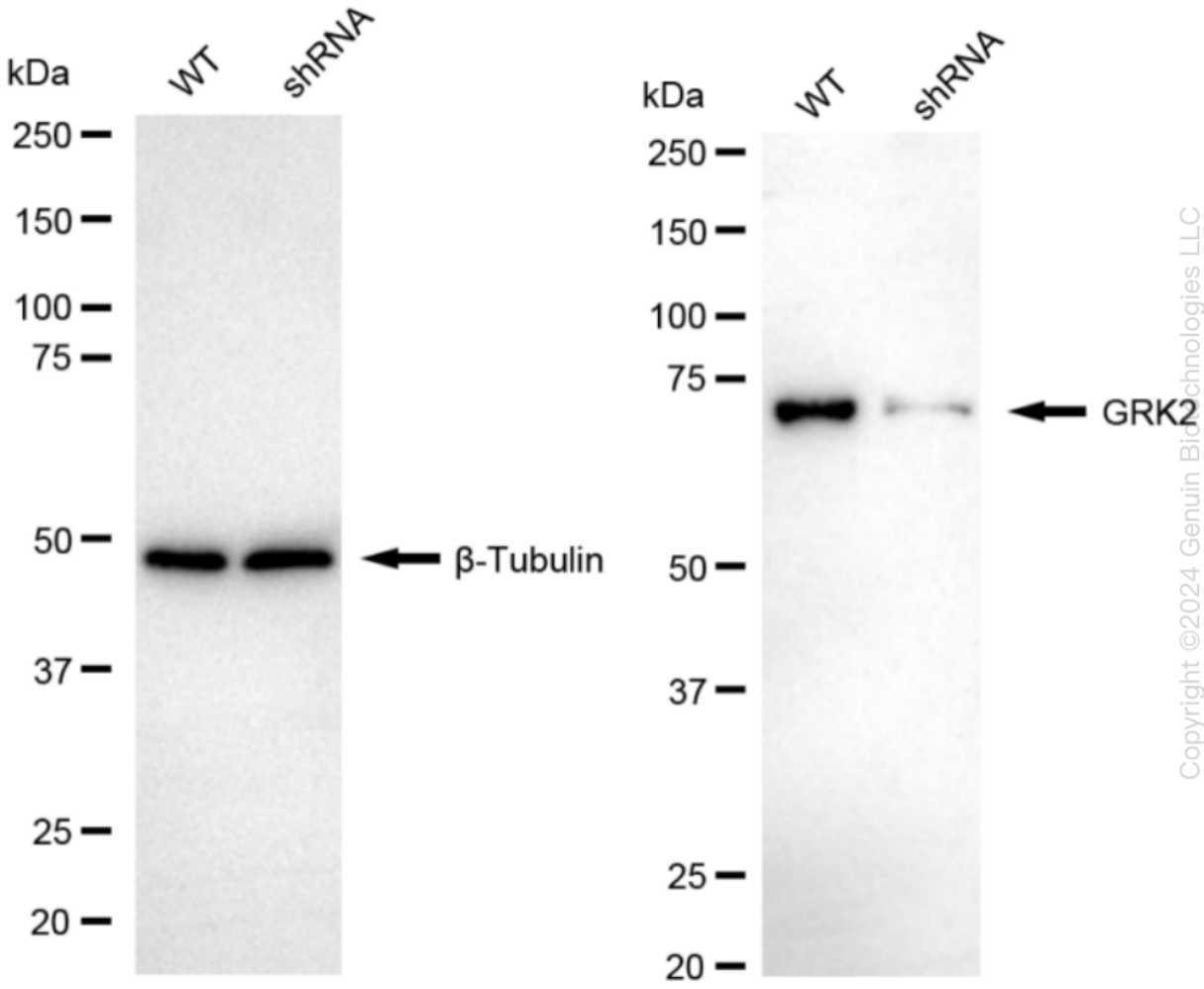
# Human GRK2 Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 24.20 |
| Knock-Down | 29.45 |
| ΔCt ($Ct_{KD}$-$Ct_{WT}$) | 5.25 |
| % mRNA Reduction | ⬇ 97% |



RT-qPCR analysis. HeLa cells were infected with GRK2-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. GRK2 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 GRK2 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed

using FeQ™ ECL Substrate Kit.