Human GRB2 Knockdown Cell Line (WB-Validated)

Catalog #: C62157

Aliases

GRB2; Growth Factor Receptor Bound Protein 2; Growth Factor Receptor-Bound Protein 2; NCKAP2; SH2/SH3 Adapter GRB2; Protein Ash; ASH; Epidermal Growth Factor Receptor-Binding Protein GRB2; Epididymis Secretory Sperm Binding Protein; Growth Factor Receptor-Bound Protein 3; Antibodyundant SRC Homology; Adapter Protein GRB2; EGFRBP-GRB2; MSTP084; Grb3-3; MST084; HT027

Background

Gene Name: GRB2
NCBI Gene Entry: 2885

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GRB2 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.

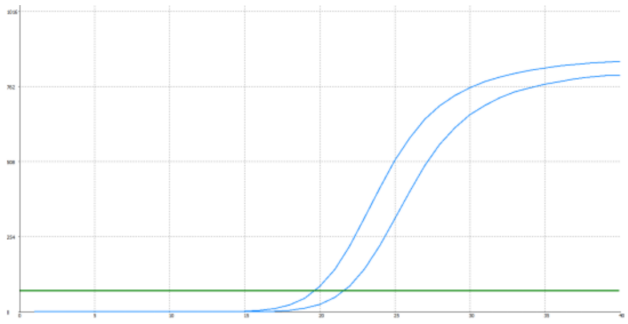
Instructions For Use

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

Note: This product is for research use only.

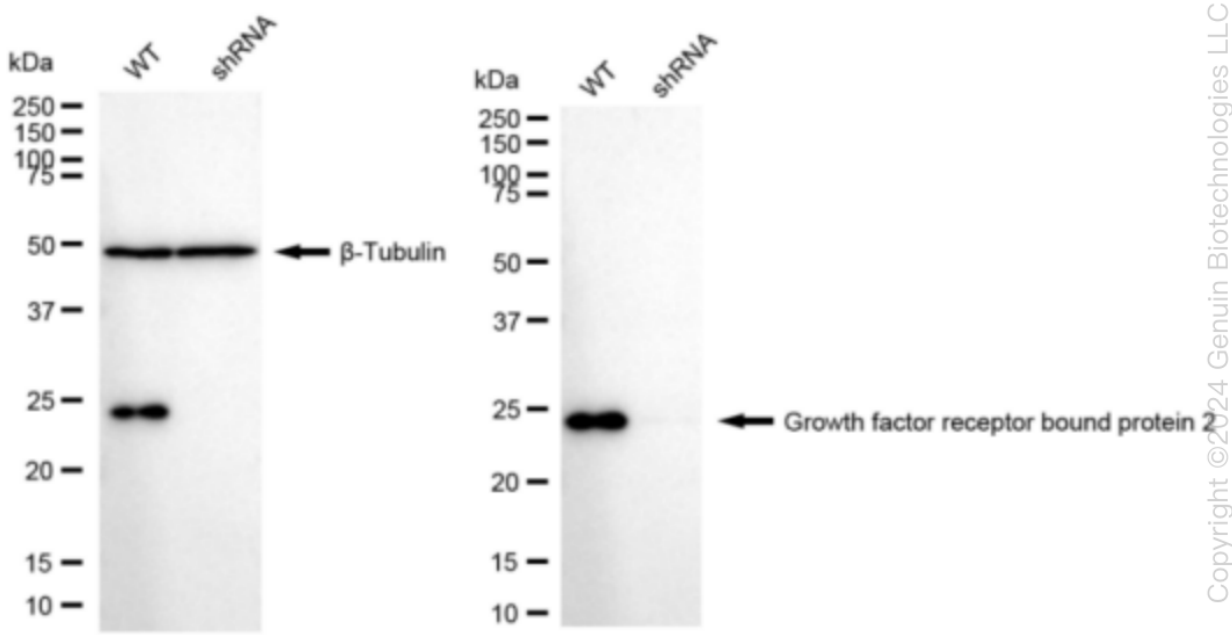
Validation Data

Human GRB2 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.36
Knock-Down	21.22
ΔCt (Ct_{KD}-Ct_{WT})	1.86
% mRNA Reduction	⬇ 72%

RT-qPCR analysis. HeLa cells were infected with GRB2-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. GRB2 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 (Cat#62157, 1:5,000) against GRB2 and β-Tubulin, 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).