Human CDC42 Knockdown Cell Line (WB-Validated)

Catalog #: C62142

Aliases

CDC42; Cell Division Cycle 42; Cell Division Control Protein 42 Homolog; G25K GTP-Binding Protein; DJ224A6.1.1 (Cell Division Cycle 42 (GTP-Binding Protein, 25kD)); 25kDa; DJ224A6.1.2 (Cell Division Cycle 42 (GTP-Binding Protein, 25kD)); Cell Division Cycle 42 (GTP Binding Protein, 25kDa); Growth-Regulating Protein; Cell Division Cycle 42 (GTP-Binding Protein, 25kD); GTP Binding Protein; 25kDa; GTP Binding Protein; GTP-Binding Protein; 25kD; CDC42Hs; Small GTP Binding Protein CDC42; G25K

Background

Gene Name: CDC42
NCBI Gene Entry: 998

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CDC42 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.

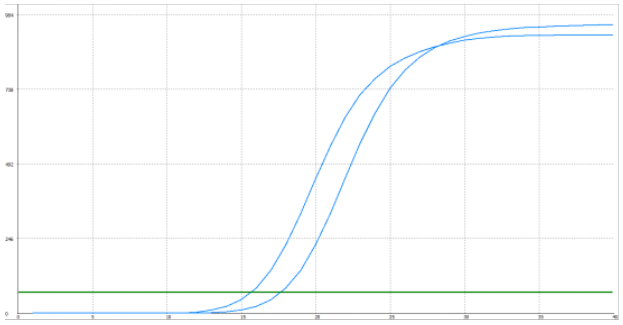
Instructions For Use

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

Note: This product is for research use only.

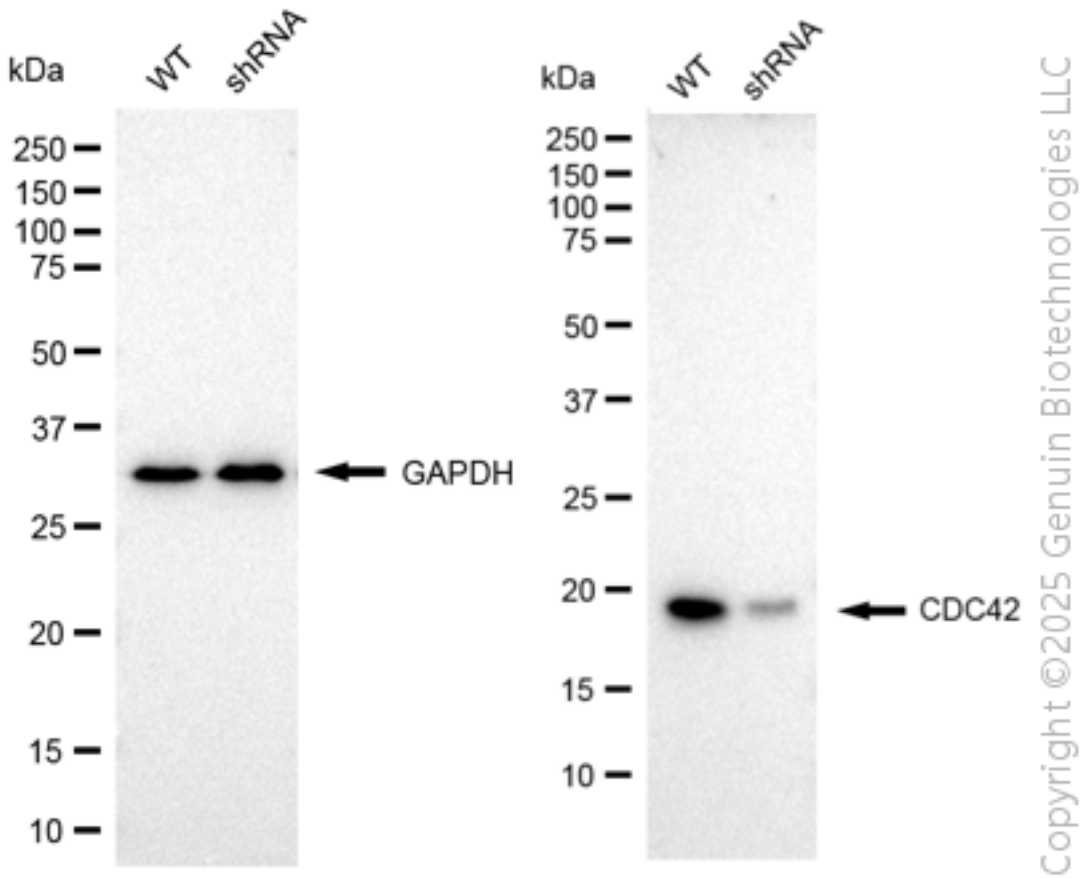
Validation Data

Human CDC42 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	15.54
Knock-Down	17.60
ΔCt (CtKD-CtWT)	2.06
% mRNA Reduction	76%

RT-qPCR analysis. HT-1080 cells were infected with CDC42-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. CDC42 protein expression in wild-type (WT) and shRNA knockdown

(KD) HT-1080 cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies against CDC42 and GAPDH, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.