Human PIK3C3 Knockdown Cell Line (WB-Validated)

Catalog #: C62502

Aliases

Phosphatidylinositol 3-Kinase Catalytic Subunit Type 3; HVps34; Vps34; Phosphatidylinositol 3-Kinase P100 Subunit; Vacuolar Protein Sorting 34 Homolog; Phosphoinositide-3-Kinase, Class 3; PtdIns-3-Kinase Type 3; PI3-Kinase Type 3; EC 2.7.1.137; PI3K Type 3; Phosphatidylinositol 3-Kinase, Catalytic Subunit Type 3; Phosphoinositide-3-Kinase Class 3; EC 2.7.1; VPS34

Background

Gene Name: PIK3C3
NCBI Gene Entry: 5289

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PIK3C3 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.

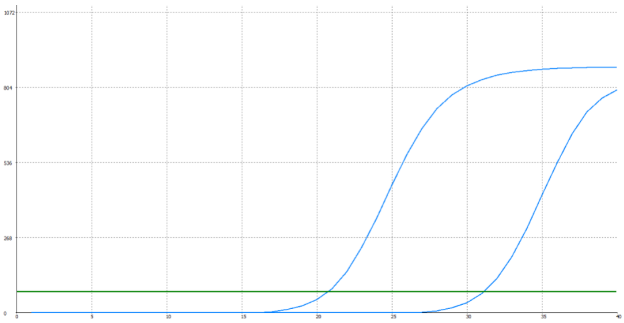
Instructions For Use

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

Note: This product is for research use only.

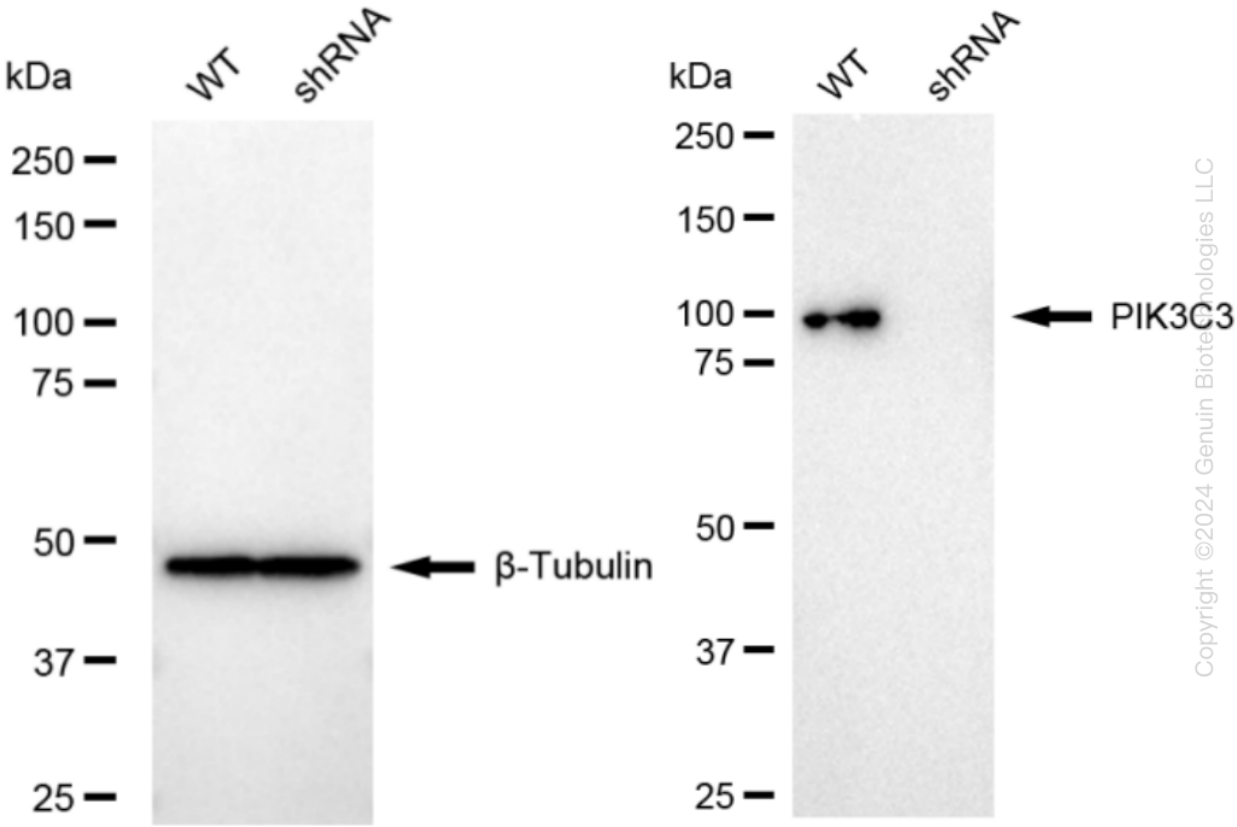
Validation Data

Human PIK3C3 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.40
Knock-Down	30.61
ΔCt (Ct_{KD}-Ct_{WT})	10.21
% mRNA Reduction	⬇99.9%

RT-qPCR analysis. HeLa cells were infected with PIK3C3-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. PIK3C3 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 PIK3C3 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.