Human PIK3C2A Knockdown Cell Line (WB-Validated)

Catalog #: C65052

Aliases

PIK3C2A; Phosphatidylinositol-4-Phosphate 3-Kinase Catalytic Subunit Type 2 Alpha; Phosphatidylinositol 4-Phosphate 3-Kinase C2 Domain-Containing Subunit Alpha; PI3K-C2alpha; Phosphoinositide-3-Kinase, Class 2, Alpha Polypeptide; Phosphoinositide 3-Kinase-C2-Alpha; PtdIns-3-Kinase C2 Subunit Alpha; PI3K-C2-Alpha; EC 2.7.1.154; Phosphatidylinositol-4-Phosphate 3-Kinase C2 Domain-Containing Subunit Alpha; Phosphatidylinositol-4-Phosphate 3-Kinase, Catalytic Subunit Type 2 Alpha; C2-Containing Phosphatidylinositol Kinase; PI3-K-C2(ALPHA); EC 2.7.1.137; EC 2.7.1.153; PI3-K-C2A; EC 2.7.1; OCSKD; CPK

Background

Gene Name: PIK3C2A
NCBI Gene Entry: 5286

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PIK3C2A 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.

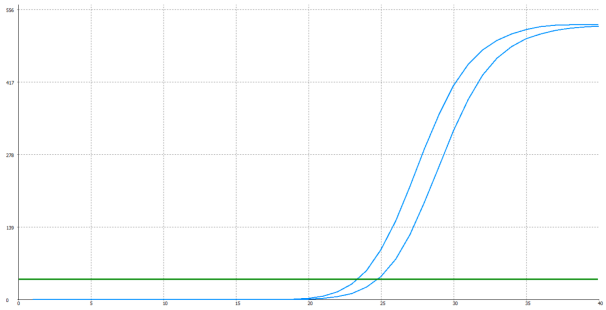
Instructions For Use

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

Note: This product is for research use only.

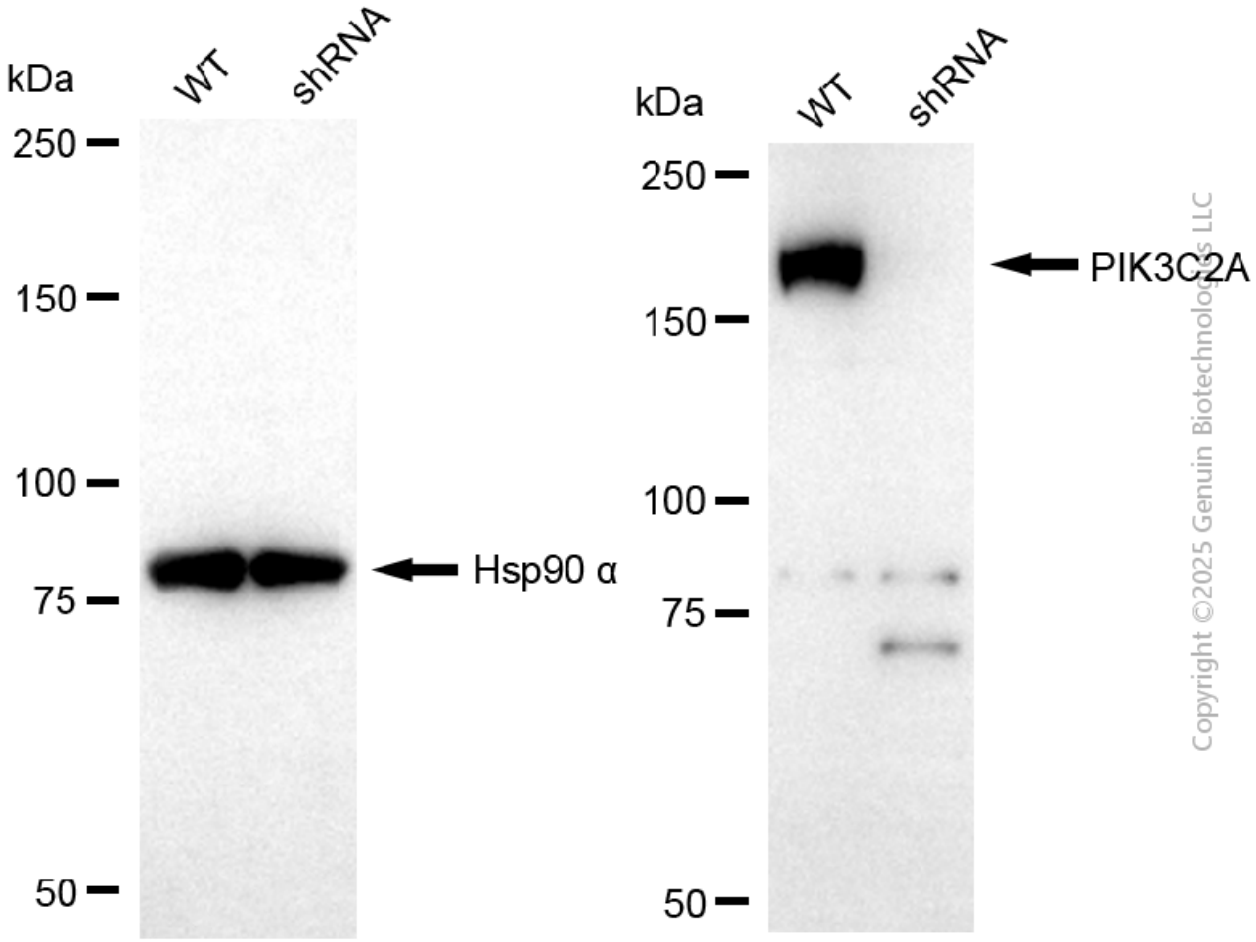
Validation Data

Human PIK3C2A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.27
Knock-Down	24.64
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	3.37
% mRNA Reduction	⬇ 90%

RT-qPCR analysis. HeLa cells were infected with PIK3C2A-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. PIK3C2A protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against PIK3C2A and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.