Human PDE1B Knockdown Cell Line (WB-Validated)

Catalog #: C64847

Aliases

PDE1B; Phosphodiesterase 1B; PDES1B; Dual Specificity Calcium/Calmodulin-Dependent 3',5'-Cyclic Nucleotide Phosphodiesterase 1B; Phosphodiesterase 1B, Calmodulin-Dependent; 63 KDa Cam-PDE; EC 3.1.4.17; Cam-PDE 1B; Presumed 63kDa Form Of The Type 1 Cyclic Nucleotide Phosphodiesterase Family Known As PDE1B; Calcium/Calmodulin-Dependent 3',5'-Cyclic Nucleotide Phosphodiesterase 1B; Calcium/Calmodulin-Stimulated Cyclic Nucleotide Phosphodiesterase; Epididymis Secretory Sperm Binding Protein Li 79p; Calmodulin-Stimulated Phosphodiesterase PDE1B1; HEL-S-79p; EC 3.1.4; PDE1B1

Background

Gene Name: PDE1B
NCBI Gene Entry: 5153

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PDE1B 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.

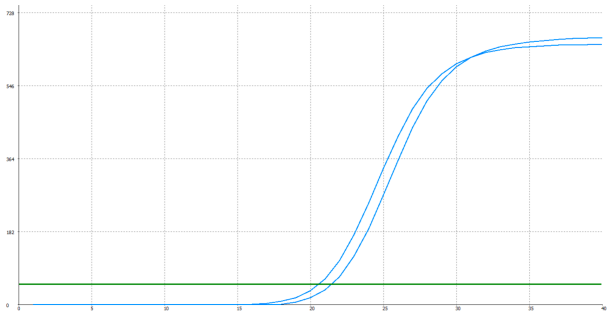
Instructions For Use

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

Note: This product is for research use only.

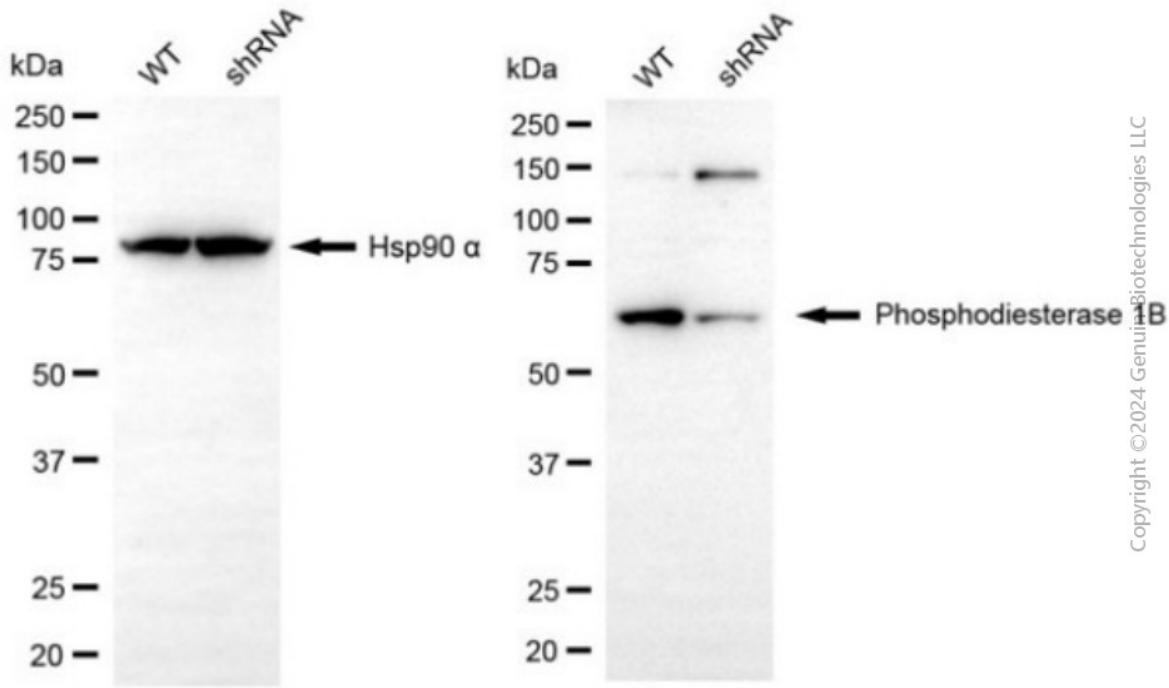
Validation Data

Human PDE1B Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.36
Knock-Down	21.31
ΔCt (Ct_{KD}-Ct_{WT})	0.95
% mRNA Reduction	⬇ 48%

RT-qPCR analysis. HeLa cells were infected with PDE1B-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. PDE1B 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 PDE1B and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.