Human PRKAR2A Knockdown Cell Line (WB-Validated)

Catalog #: C62527

Aliases

PRKAR2A; Protein Kinase CAMP-Dependent Type II Regulatory Subunit Alpha; PRKAR2; Protein Kinase, CAMP-Dependent, Regulatory Subunit Type II Alpha; CAMP-Dependent Protein Kinase Type II-Alpha Regulatory Subunit; PKR2; Protein Kinase, CAMP-Dependent, Regulatory, Type II, Alpha; CAMP-Dependent Protein Kinase Regulatory Subunit RII Alpha; Protein Kinase A, RII-Alpha Subunit

Background

Gene Name: PRKAR2A
NCBI Gene Entry: 5576

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PRKAR2A 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.

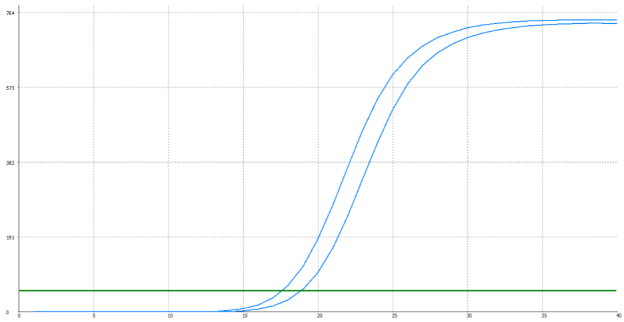
Instructions For Use

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 PRKAR2A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.55
Knock-Down	18.83
ΔCt (Ct_{KD}-Ct_{WT})	1.28
% mRNA Reduction	⬇ 59%

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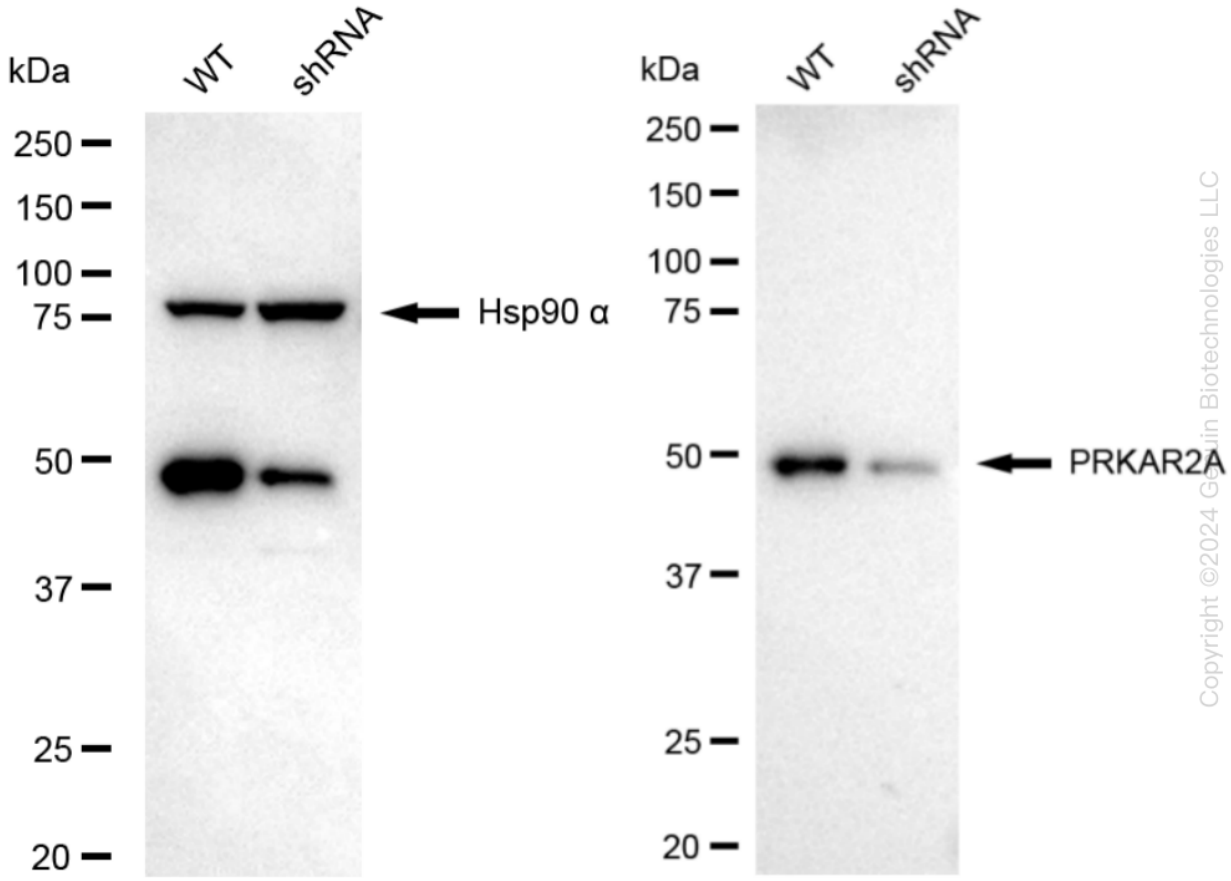
RT-qPCR analysis. HeLa cells were infected with PRKAR2A-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis. PRKAR2A 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 PRKAR2A and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.