

Human PRKACA Knockdown Cell Line (WB-Validated)



Catalog #: C6611

Aliases

PRKACA; Protein Kinase; CAMP-Dependent; Catalytic; Alpha; CAMP-Dependent Protein Kinase Catalytic Subunit Alpha; PKACA; Protein Kinase A Catalytic Subunit; PKA C-Alpha; EC 2.7.11; EC 2.7.11.11

Background

Gene Name: PRKACA
NCBI Gene Entry: [5566](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PRKACA 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

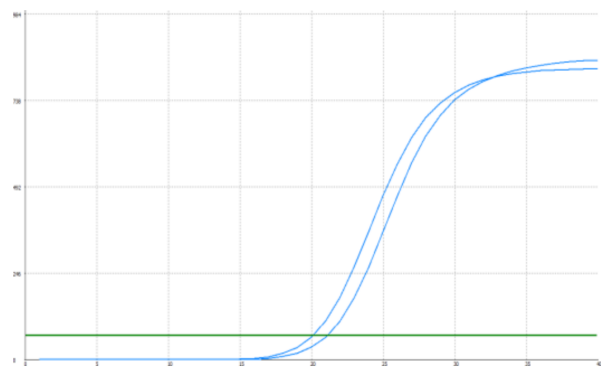
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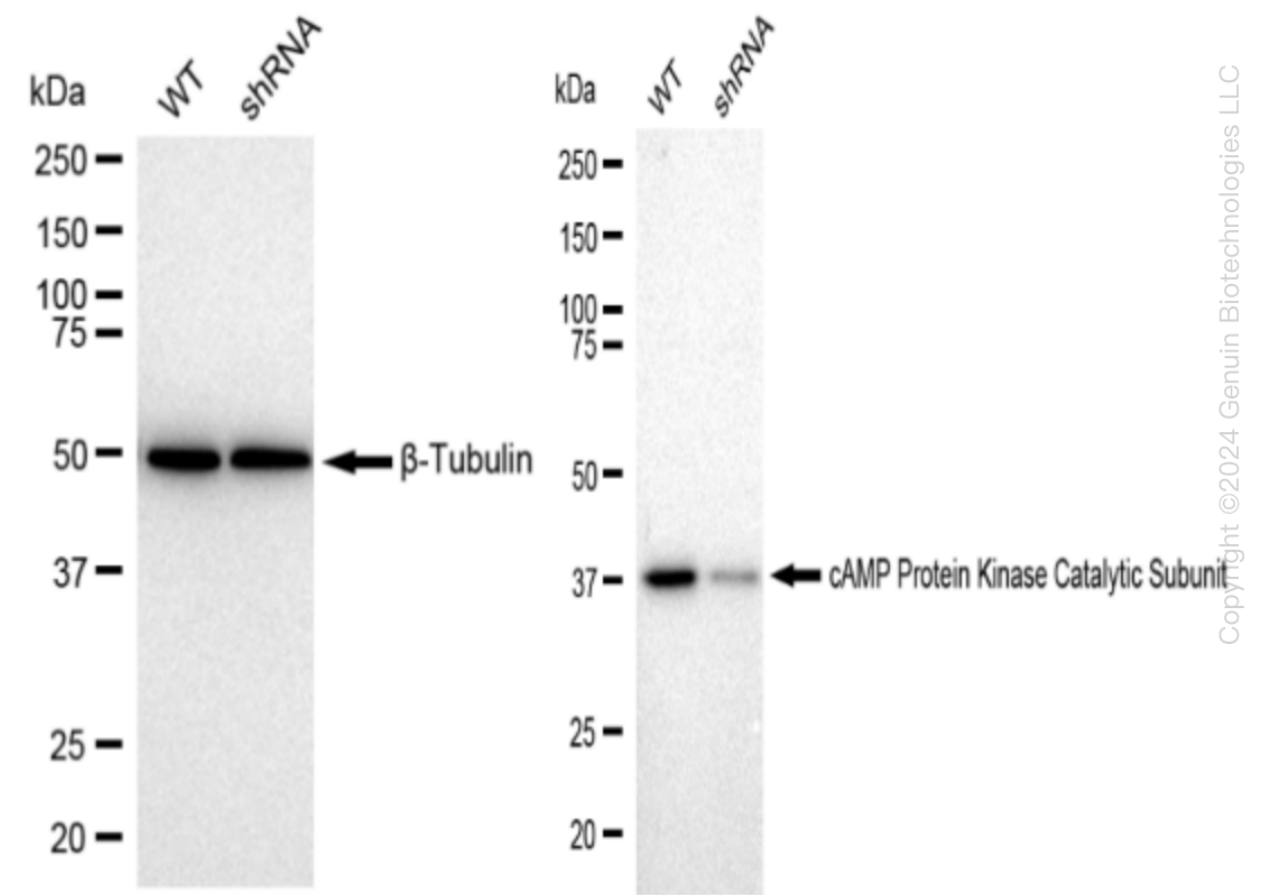
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Genotype	Ct Value
Wild-Type	19.84
Knock-Down	20.88
ΔCt ($Ct_{KD}-Ct_{WT}$)	1.04
% mRNA Reduction	↓ 51%

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RT-qPCR analysis. HT-1080 cells were infected with PRKACA-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt ($Ct_{KD}-Ct_{WT}$) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2^{\Delta Ct}) \times 100\%$.



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Western blotting analysis. PRKACA protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. β -Tubulin served as a loading control.

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The blots were incubated with primary antibodies (Cat#69641, 1:5,000) against PRKACA and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

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