

Human AKT1S1 Knockdown Cell Line (WB-Validated)



Catalog #: C65171

Aliases

AKT1 SubstRate 1; PRAS40; Lobe; 40 KDa Proline-Rich AKT SubstRate; Proline-Rich AKT1 SubstRate 1; MGC2865; Proline-Rich Akt SubstRate, 40 KDa; AKT1 SubstRate 1 (Proline-Rich); AKT1 SubstRate 1 (Proline Rich)

Background

Gene Name: AKT1S1

NCBI Gene Entry: [84335](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human AKT1S1 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

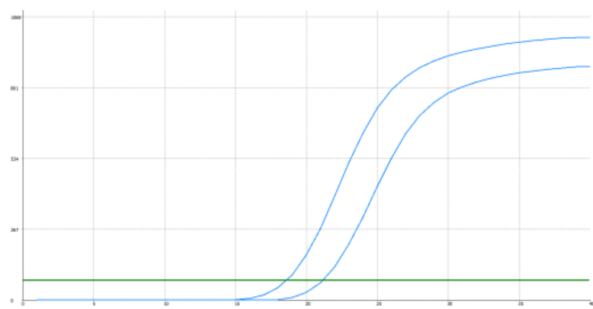
SUPPORT

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ORDERS

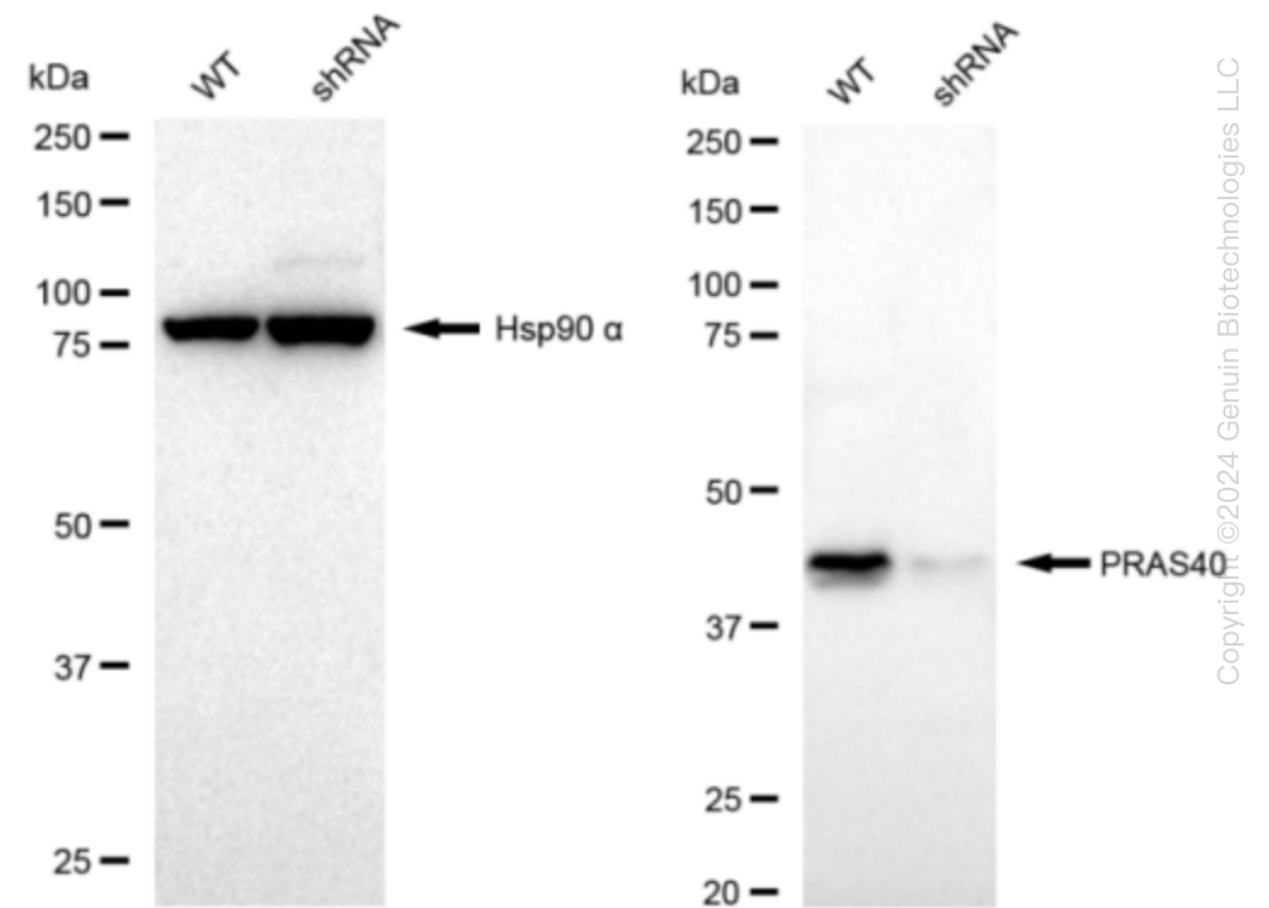
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Genotype	Ct Value
Wild-Type	18.49
Knock-Down	20.91
$\Delta Ct (Ct_{KD}-Ct_{WT})$	2.42
% mRNA Reduction	↓ 81%

RT-qPCR analysis. HeLa cells were infected with AKT1S1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD}-Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. AKT1S1 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 (Cat#68411, 1:2,500) against AKT1S1 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody

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PAGE 3

(Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

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