

# Human ATP2A2 Knockdown Cell Line (WB-Validated)



**Catalog #: C61393**

## Aliases

ATP2A2; ATPase Sarcoplasmic/Endoplasmic Reticulum Ca<sup>2+</sup> Transporting 2; SERCA2; Sarcoplasmic/Endoplasmic Reticulum Calcium ATPase 2; Calcium Pump 2; ATP2B; Endoplasmic Reticulum Class 1/2 Ca(2+) ATPase; SR Ca(2+)-ATPase; DAR; Calcium-Transporting ATPase Sarcoplasmic Reticulum Type, Slow Twitch Skeletal Muscle Isoform; ATPase, Ca<sup>++</sup> Transporting, Cardiac Muscle, Slow Twitch 2; ATPase Ca<sup>++</sup> Transporting Cardiac Muscle Slow Twitch 2; ATPase, Ca<sup>++</sup> Dependent, Slow-Twitch, Cardiac Muscle-2; Cardiac Ca<sup>2+</sup> ATPase; EC 7.2.2.10; EC 3.6.3.8; EC 3.6.3; DD

## Background

Gene Name: ATP2A2  
NCBI Gene Entry: [488](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human ATP2A2 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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### SUPPORT

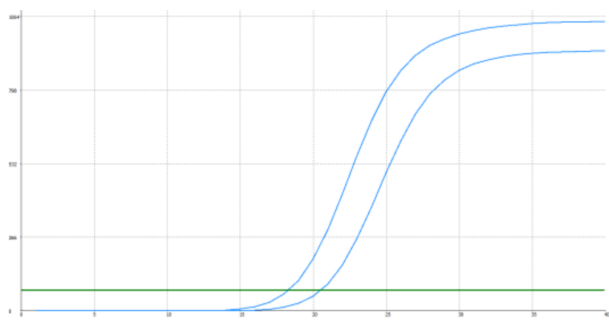
SUPPORT@GENUINBIOTECH.COM  
TEL: +1-540-855-7041

### ORDERS

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FAX: +1-540-855-7041

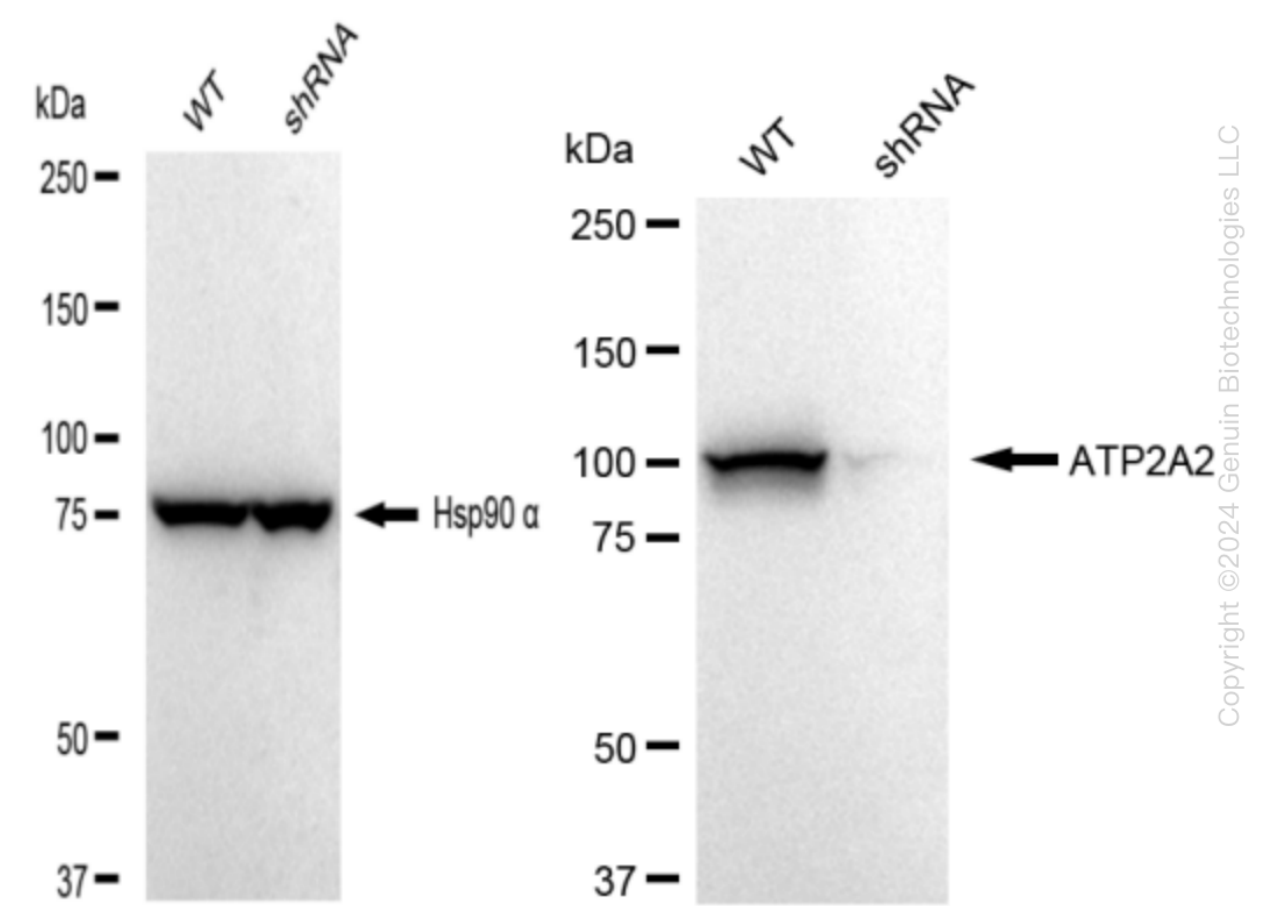
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Genotype	Ct Value
Wild-Type	18.28
Knock-Down	20.32
$\Delta Ct (Ct_{KD}-Ct_{WT})$	2.04
% mRNA Reduction	↓ 76%

RT-qPCR analysis. HeLa cells were infected with ATP2A2-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. ATP2A2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies (Cat#61393, 1:5,000) against ATP2A2 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody

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## **Human ATP2A2 Knockdown Cell Line (WB-Validated)**

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

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