

Human ARRB1 Knockdown Cell Line (WB-Validated)



Catalog #: C61629

Aliases

ARRB1; Arrestin Beta 1; ARR1; Non-Visual Arrestin-2; Beta-Arrestin-1; Arrestin 2; Arrestin, Beta 1; Arrestin Beta-1; ARB1

Background

Gene Name: ARRB1

NCBI Gene Entry: 408

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ARRB1 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

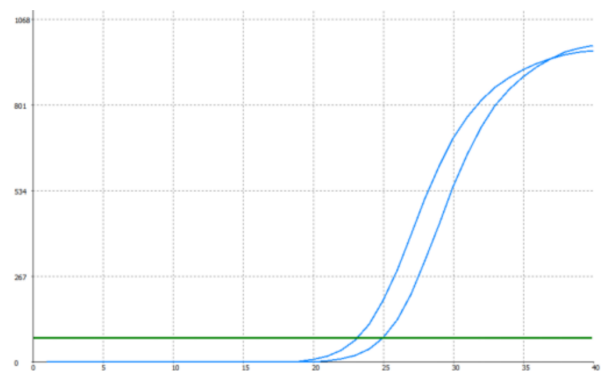
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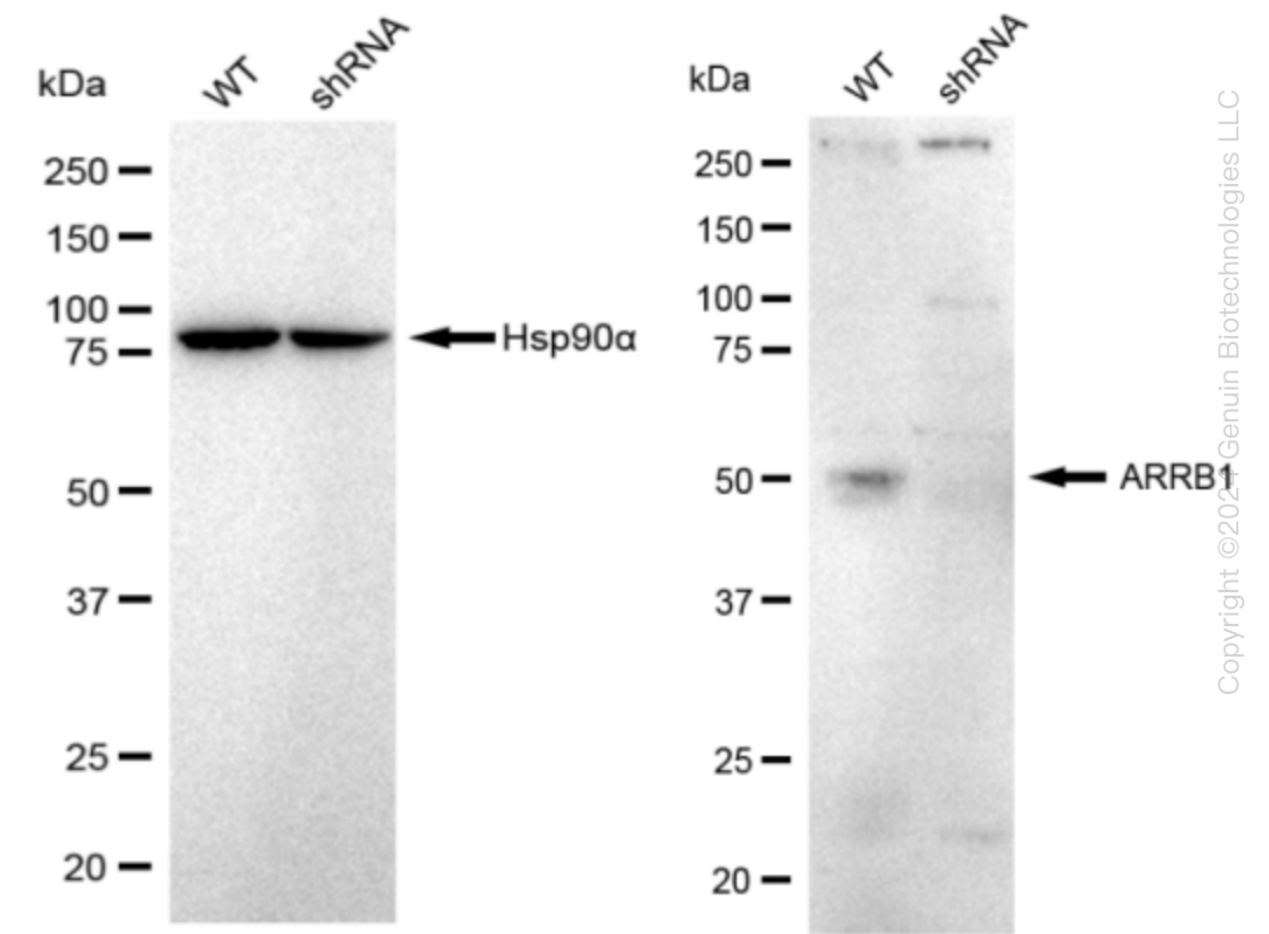
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Genotype	Ct Value
Wild-Type	23.02
Knock-Down	24.81
Δ Ct (Ct _{KD} -Ct _{WT})	1.79
% mRNA Reduction	↓ 71%

RT-qPCR analysis. HeLa cells were infected with ARRB1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ 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) x 100%.



Western blotting analysis. ARRB1 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#69661, 1:5,000) against ARRB1 and Hsp90 α , 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).