

Human ATG4B Knockdown Cell Line (WB-Validated)



Catalog #: C61584

Aliases

ATG4B; Autophagy Related 4B Cysteine Peptidase; AUTL1; KIAA0943; APG4B; Autophagy-Related Cysteine Endopeptidase 1; Autophagy-Related Protein 4 Homolog B; AUT-Like 1 Cysteine Endopeptidase; Cysteine Protease ATG4B; Autophagin-1; HsAPG4B; HAPG4B; ATG4 Autophagy Related 4 Homolog B (S. Cerevisiae); APG4 Autophagy 4 Homolog B (S. Cerevisiae); Autophagy Related 4B, Cysteine Peptidase; ATG4 Autophagy Related 4 Homolog B; APG4 Autophagy 4 Homolog B; DKFZp586D1822; DKFZP586D1822; EC 3.4.22.-; EC 3.4.22; Apg4B

Background

Gene Name: ATG4B

NCBI Gene Entry: [23192](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ATG4B 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

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

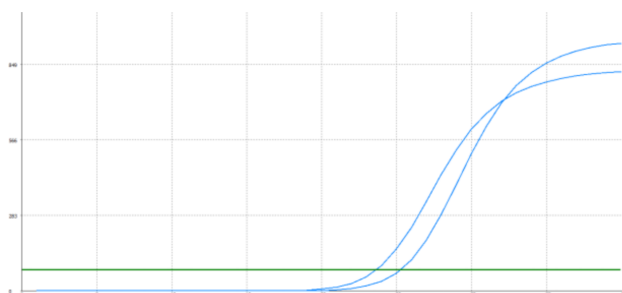
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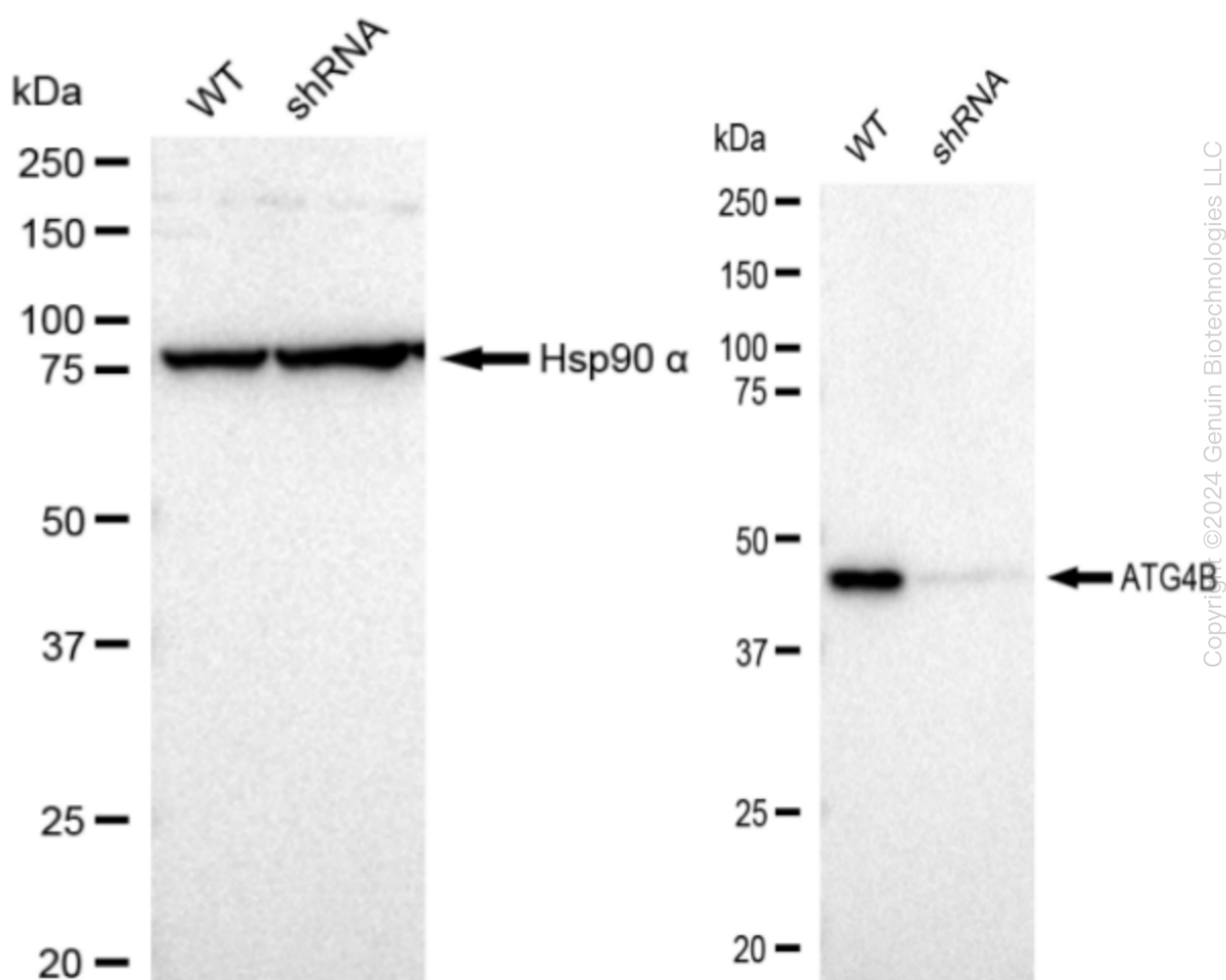
Human ATG4B Knockdown Cell Line (WB-Validated)

PAGE 2



Genotype	Ct Value
Wild-Type	23.13
Knock-Down	24.98
$\Delta Ct (Ct_{KD} - Ct_{WT})$	1.85
% mRNA Reduction	↓ 72%

RT-qPCR analysis. HeLa cells were infected with ATG4B-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. ATG4B protein expression in wild-type (WT) and shRNA knockdown

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PAGE 3

(KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#61584, 1:5,000) against ATG4B 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).

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