Human ATG5 Knockdown Cell Line (WB-Validated)



Catalog #: C61735

Aliases

ATG5; Autophagy Related 5; ASP; HAPG5; APG5L; APG5; Apoptosis-Specific Protein; Autophagy Protein 5; ATG5 Autophagy Related 5 Homolog (S. Cerevisiae); APG5 (Autophagy 5, S. Cerevisiae)-Like; APG5 Autophagy 5-Like (S. Cerevisiae); ATG5 Autophagy Related 5 Homolog; APG5 Autophagy 5-Like; APG5-LIKE; APG5-Like; SCAR25

Background

Gene Name: ATG5

NCBI Gene Entry: 9474

Storage

Store at liquid nitrogen for 1 year.

Kit Components

- 1. Human ATG5 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

Ct Value

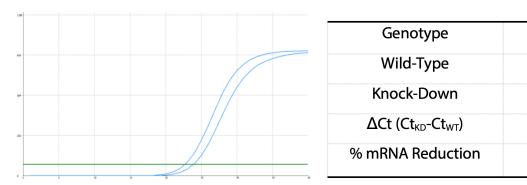
22.29

23.44

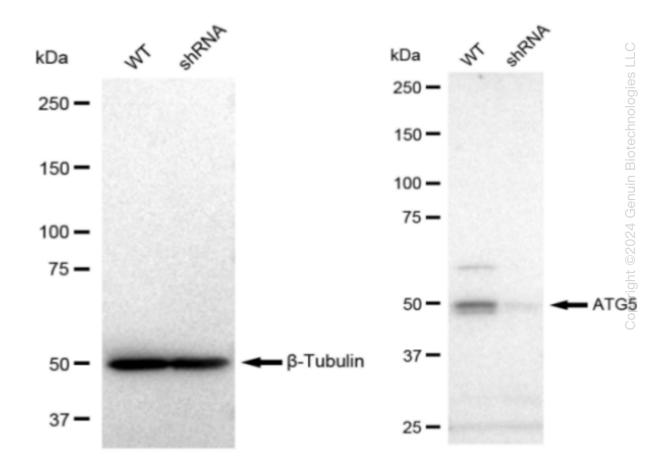
1.15

55%

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RT-qPCR analysis. HeLa cells were infected with ATG5-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) 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. ATG5 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61735, 1:5,000) against ATG5 and β -Tubulin,

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respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQTM ECL Substrate Kit (Cat#226).