# Human ATG16L1 Knockdown Cell Line (WB-Validated)

# Catalog #: C1731

## Aliases

ATG16L1; Autophagy Related 16 Like 1; ATG16A; APG16L; WDR30; Autophagy-Related Protein 16-1; FLJ10035; ATG16L; ATG16 Autophagy Related 16-Like 1 (S. Cerevisiae); ATG16 Autophagy Related 16-Like (S. Cerevisiae); APG16 Autophagy 16-Like (S. Cerevisiae); ATG16 Autophagy Related 16-Like 1; WD Repeat Domain 30; APG16-Like 1; APG16L Beta; IBD104C, Cysteine Peptidase; ATG4 Autophagy Related 4 Homolog C; AUT-Like 1, Cysteine; Endopeptidase; APG4 Autophagy 4 Homolog C; EC 3.4.22.-; EC 3.4.22; APG4-C

## Background

Gene Name: ATG16L1
NCBI Gene Entry: 55054

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human ATG16L1 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.

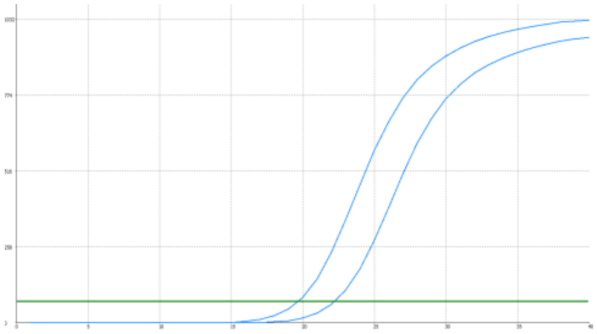
## Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

**Note:** This product is for research use only.

### Validation Data

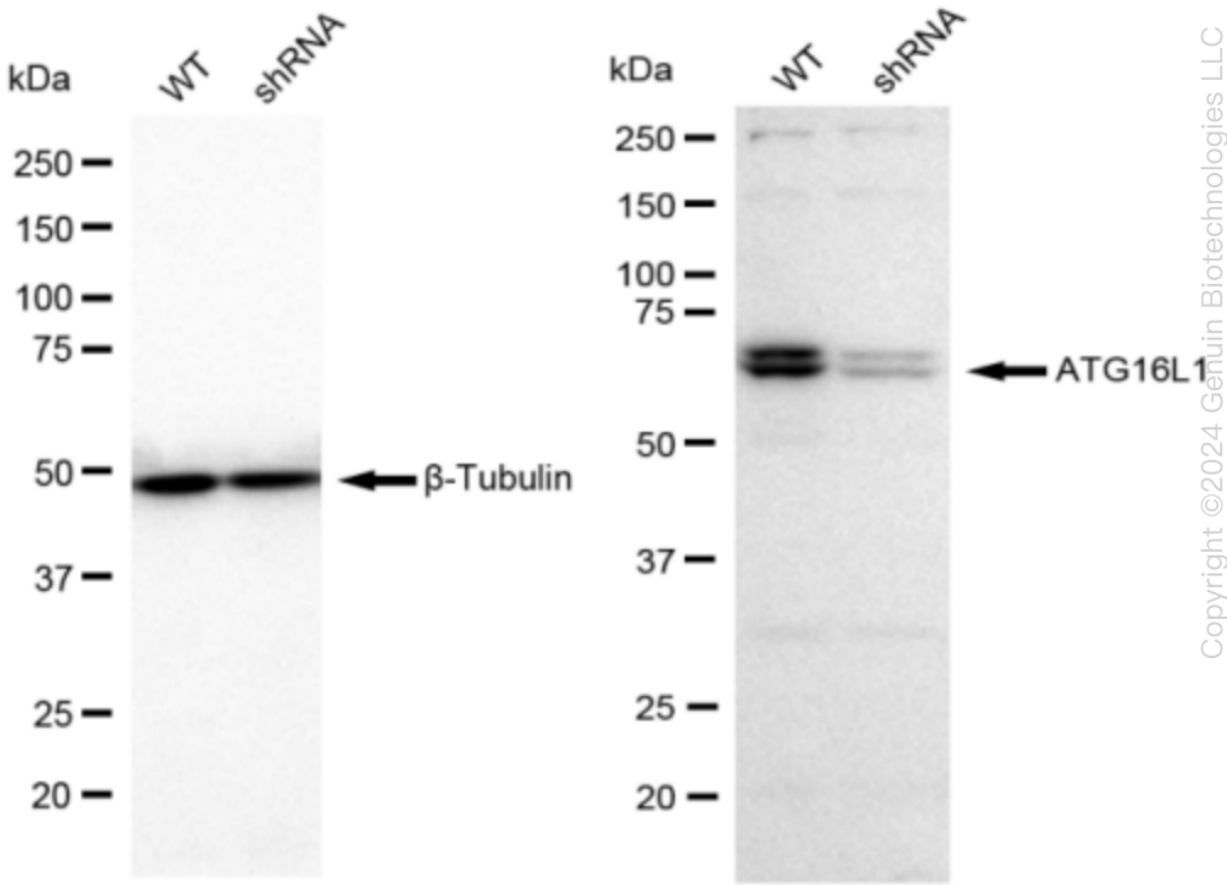
# Human ATG16L1 Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 19.67 |
| Knock-Down | 22.15 |
| ΔCt ($Ct_{KD}$-$Ct_{WT}$) | 2.48 |
| % mRNA Reduction | ⬇ 82% |



RT-qPCR analysis. 293T cells were infected with ATG16L1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.






Western blotting analysis. ATG16L1 protein expression in wild-type (WT) and shRNA knockdown (KD) 293T cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61641, 1:5,000) against ATG16L1

and β-Tubulin, 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).