

Product datasheet for **LY300001**

ATG16L1 Human Knockdown Lysate

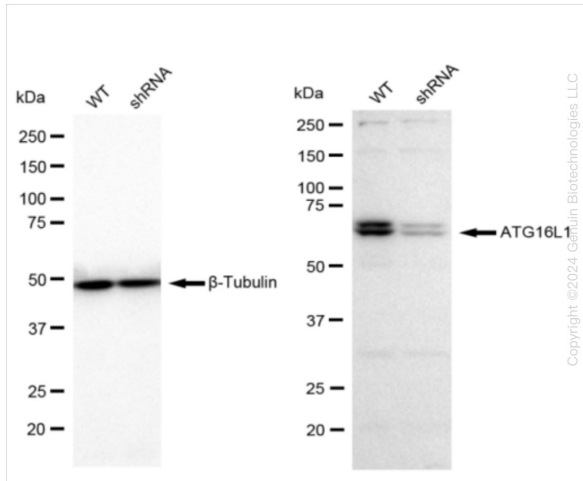
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated ATG16L1 Knockdown Cell Lysate
Species:	Human
Expression Host:	293T
Tag:	Tag Free
Synonyms:	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
Predicted MW:	68 kDa
Components:	1 vial of 100 ug WT 293T cell lysate 1 vial of 100 ug ATG16L1 KD 293T cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	55054
UniProt ID:	<u>Q676U5</u>



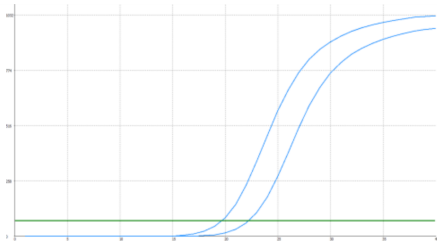
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Product images:



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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 against ATG16L1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	19.67
Knock-Down	22.15
$\Delta Ct (Ct_{KD} - Ct_{WT})$	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. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.

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