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Product datasheet for LY300008

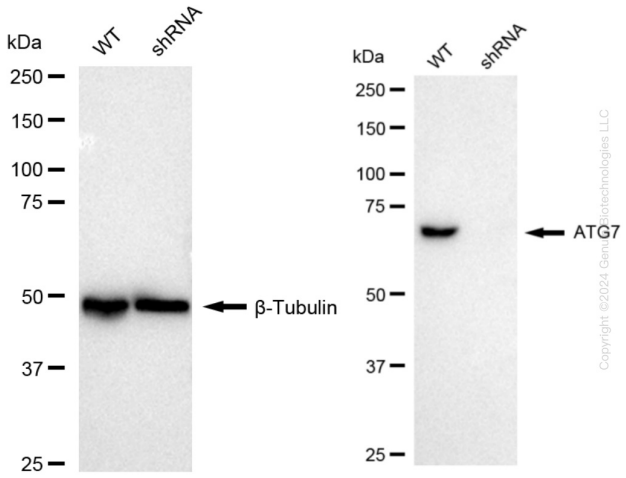
ATG7 Human Knockdown Lysate

Product data:

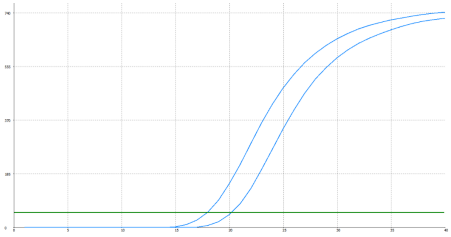
Product Type:	Knockdown Lysates
Description:	WB-validated ATG7 Knockdown 293T Cell Lysate
Species:	Human
Expression Host:	293T
Tag:	Tag Free
Synonyms:	ATG7; Autophagy Related 7; Ubiquitin-Activating Enzyme E1-Like Protein; Ubiquitin-Like Modifier-Activating Enzyme ATG7; ATG12-Activating Enzyme E1 ATG7; APG7L; HAGP7; ATG7 Autophagy Related 7 Homolog (S. Cerevisiae); APG7 Autophagy 7-Like (S. Cerevisiae); Autophagy-Related Protein 7; APG7 Autophagy 7-Like; APG7-LIKE; APG7-Like; GSA7
Predicted MW:	78 kDa
Components:	1 vial of 100 ug WT 293T cell lysate 1 vial of 100 ug ATG7 KD 293T cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	10533
UniProt ID:	O95352
Protein Pathways:	Regulation of autophagy

View online »

Product images:



Western blotting analysis. ATG7 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 ATG7 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	18.00
Knock-Down	20.19
ΔCt (Ct_{KD}-Ct_{WT})	2.19
% mRNA Reduction	⬇ 78%

RT-qPCR analysis. 293T cells were infected with ATG7-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%.