

Human ATG7 Knockdown Cell Lysate

Cat. No. ATG7-008HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ATG7 Knockdown 293T Cell Lysate
Species	Human
Source	293T
Description	This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	78 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type 293T cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific

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Shipping	Blue Ice
Components	1 vial of 100 µg WT 293T cell lysate 1 vial of 100 µg ATG7 KD 293T cell lysate
Protein Pathways	Regulation of autophagy
Lysate QC	RT-qPCR; Western Blotting (WB)
GENE INFORMATION	
Gene Name	ATG7 ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i> (human)]
Official Symbol	ATG7
Synonyms	ATG7; ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>); APG7 autophagy 7 like (<i>S. cerevisiae</i>), APG7L; ubiquitin-like modifier-activating enzyme ATG7; DKFZp434N0735; GSA7; HAGP7; autophagy-related protein 7; ATG12-activating enzyme E1 ATG7; ubiquitin activating enzyme E1-like protein; ubiquitin-activating enzyme E1-like protein; APG7L; APG7-LIKE;
Gene ID	10533
mRNA Refseq	NM_001136031
Protein Refseq	NP_001129503
MIM	608760
UniProt ID	O95352

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