

Recombinant Human ATG7 293 Cell Lysate

Cat. No. ATG7-8621HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>) (ATG7), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ATG7 ATG7 autophagy related 7 homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	ATG7
Synonyms	ATG7 ; ATG7 autophagy related 7 homolog (S. cerevisiae) ; APG7 autophagy 7 like (S. cerevisiae) , 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
Chromosome Location	3p25.3-p25.2
Pathway	Adaptive Immune System, organism-specific biosystem ; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem ; Class I MHC mediated antigen processing & presentation, organism-specific biosystem ; Immune System, organism-specific biosystem ; Regulation of autophagy, organism-

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specific biosystem;

Function

APG12 activating enzyme activity; catalytic activity; nucleotide binding; protein binding; protein homodimerization activity; ubiquitin activating enzyme activity;

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