



Anti-ATG7 (C-terminal) polyclonal antibody (CPBT-66442RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rabbit anti Human ATG7 (C-Terminal) antibody recognizes human Autophagy-related protein 7, known also as Ubiquitin Activating Enzyme-E1 like Protein, ATG7 and APG7, a 78kDa cytoplasmic protein. In mammalian cells, ATG7 is essential for autophagy conjugation systems, autophagosome formation, starvation-induced bulk degradation of proteins and organelles. Studies indicate that caspase-8 may alter ATG7 levels and thus the ATG7 program of autophagic cell death. ATG7 is evolutionally conserved and exhibits high homology within mammalian species. It expressed in wide range of tissues including kidney, liver, bone marrow and lymph nodes. Western Blotting detects a band of approximately 78kDa in Caco-2 cell lysate.

Specificity	ATG7
Immunogen	A peptide corresponding to an 17 amino acid sequence from near the carboxy terminus of human ATG7.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Conjugate	Unconjugated
Applications	IHC-Fr; WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	0.02% Sodium Azide

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	ATG7 autophagy related 7 [Homo sapiens (human)]
Official Symbol	ATG7
Synonyms	ATG7; autophagy related 7; GSA7; APG7L; APG7-LIKE; ubiquitin-like modifier-activating enzyme ATG7; hAGP7; autophagy-related protein 7; ATG12-activating enzyme E1 ATG7; ATG7 autophagy related 7 homolog; ubiquitin activating enzyme E1-like protein; ubiquiti
Entrez Gene ID	10533
Protein Refseq	NP_001129503
UniProt ID	Q9D906
Chromosome Location	3p25.3
Pathway	Adaptive Immune System; Antigen processing: Ubiquitination & Proteasome degradation; Class I MHC mediated antigen processing & presentation; Immune System; Regulation of autophagy; Senescence and Autophagy;
Function	Atg12 activating enzyme activity; Atg8 activating enzyme activity; protein binding; protein homodimerization activity; transcription factor binding; ubiquitin activating enzyme activity;