

## Product datasheet for **R1613**

### ATG7 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA</b> (1/300,000-1/400,000). <b>Western blot</b> (1/500-1/2,000). Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 78 kDa in size corresponding to human Apg7 by western blotting in the appropriate cell lysate or extract. Human Apg7 has been reported to form a homodimer at approximately 160 kDa.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 558-569 of Human Apg7 protein.
Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. Reactivity occurs against human Apg7 protein. However, BLAST analysis indicates 100% homology (12/12) for this protein from human, chimpanzee, mouse, rat, dog, and chicken sources. The core amino acids of the immunogen, G-D-S-T-R-D-R-T are 100% identical (8/8) in D. melanogaster. Reactivity with Apg7 proteins from other sources is not known.
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide as preservative State: Purified State: Liquid (sterile filtered) purified IgG fraction Stabilizer: None
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.



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<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	autophagy related 7
<b>Database Link:</b>	<a href="#">Entrez Gene 10533 Human O95352</a>
<b>Background:</b>	Apg7 is the human gene product similar in homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae Apg7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes.
<b>Synonyms:</b>	APG7-like, Autophagy-related protein 7
<b>Note:</b>	<p><b>Protein Sequence:</b> Human Apg7, 703 aa, predicted MW 78.0 kDa</p> <pre> 1 maaatgdpgl sklqfapfss aldvqfwheel tqkklneyrl deapkdikgy yyngdsaglp 61 arltlefsaf dmsaptparc cpaigtlynt ntlesfktad kklleqaan eiwesiksqt 121 alenpvllnk fliltfadlk kyhfyywfcy palclpeslp liqgpvgldq rfskqieal 181 ecaydnlcqt egvtalpyfl ikydenmvlv slkhysdff qgqrkitig vydpclnaqy 241 pgwplrnflv laahrwsssf qsvevvcfrd rtmqgardva hsiifevklp emafspdcpk 301 avgweknqkg gmgprmvnl ecmdpkrlae ssvdlnklm cwrlyptldl dkvvsvkcll 361 lgagtlgcnv artlmgwgvr hitfvdnaki sysnpvrqpl yefedclggg kpkalaaadr 421 lqkifpgvna rgfnmsipmp ghpnvfssvt leqarrdveq leqlieshdv vflmdtres 481 rwlpaviaas krklvinaal gfdtfvmrh glkpkqkqga gdlcnpnpva sadllgsslf 541 anipgyklgc yfcndvvapg dstrdrtdq qctvsrppla viagalavel mvsvlqhpeg 601 gyaiaassdd rmnepptslg lvphqirgfl srfdnlpvs lafdkctacs skvldqyere 661 gfnflakvfn sshsfledlt gtlilhqetq aaeiwdmsdd eti </pre>