

**Product Name: Atg4b Rabbit Polyclonal Antibody**  
**Catalog #: APRab07292**

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## Summary

<b>Production Name</b>	Atg4b Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	ATG4B
<b>Alternative Names</b>	ATG4B; APG4B; AUTL1; KIAA0943; Cysteine protease ATG4B; AUT-like 1 cysteine endopeptidase; Autophagin-1; Autophagy-related cysteine endopeptidase 1; Autophagy-related protein 4 homolog B; hAPG4B
<b>Gene ID</b>	23192.0
<b>SwissProt ID</b>	Q9Y4P1.The antiserum was produced against synthesized peptide derived from human ATG4B. AA range:71-120

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
<b>Molecular Weight</b>	44kDa

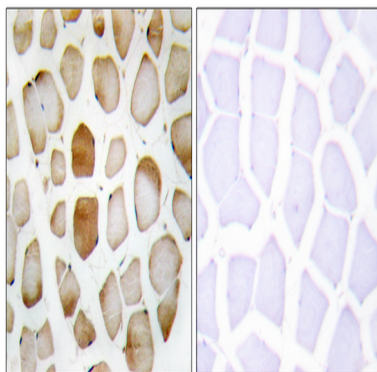
## Background

Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],enzyme regulation:Inhibited by N-ethylmaleimide,.,function:Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes,.,similarity:Belongs to the peptidase C54 family,.,tissue specificity:Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas,.

## Research Area

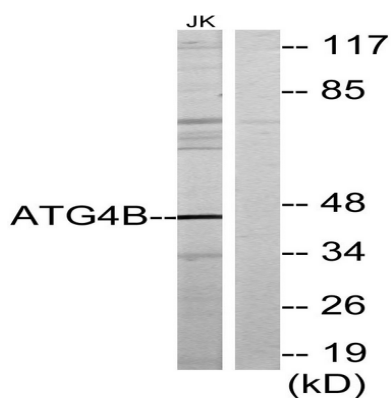
Regulation of autophagy;

## Image Data

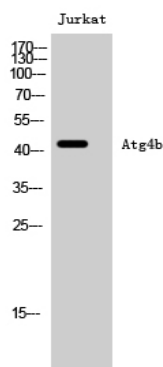


Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using ATG4B Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from Jurkat cells, using ATG4B Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of Jurkat cells using Atg4b Polyclonal Antibody

## Note

For research use only.