

## Product datasheet for **AP32207PU-N**

### **ATG4B (264-293) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1,000. <b>Western blot:</b> 1/50-1/100. <b>Immunohistochemistry on Paraffin Sections:</b> 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 264~293 amino acids from the central region of Human APG4B
Specificity:	This antibody recognizes Human ATG4B. Other species not tested.
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
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.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	44309 Da
Gene Name:	autophagy related 4B cysteine peptidase
Database Link:	<a href="#">Entrez Gene 23192 Human Q9Y4P1</a>



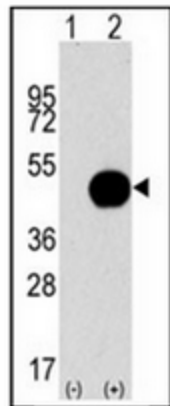
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**Background:**

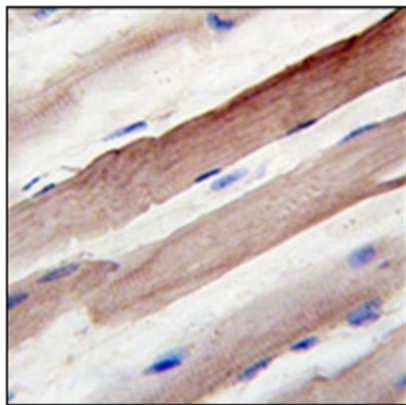
Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). APG4 is a 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.

**Synonyms:**

Autophagin-1, AUTL1, KIAA0943

**Product images:**

Western blot analysis of APG4B (arrow) using APG4B / ATG4B Antibody. 293 cell lysates (2 ug/lane) either non transfected (Lane 1) or transiently transfected with the APG4B gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with Autophagy AAPG4B / ATG4B Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.