



## Rabbit Anti-APG4B antibody

SL1384R

<b>Product Name:</b>	APG4B
<b>Chinese Name:</b>	自噬相关蛋白4B抗体
<b>Alias:</b>	APG4B; ATG4 autophagy related 4 homolog B ( <i>S. cerevisiae</i> ); AUT like 1 cysteine endopeptidase; AUTL1; Autophagin 1; Autophagy related cysteine endopeptidase 1; Autophagy related protein 4 homolog B; Cysteine protease ATG4B; hAPG4B; MGC1353br.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	44kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human APG4B:85-200/392
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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]

**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.

**Subcellular Location:**

Cytoplasm (Probable).

**Tissue Specificity:**

Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas.

**Similarity:**

Belongs to the peptidase C54 family.

**SWISS:**

Q9Y4P1

**Gene ID:**

23192

**Database links:**

[Entrez Gene: 23192](#) Human

[Entrez Gene: 66615](#) Mouse

[Entrez Gene: 316640](#) Rat

[Omim: 611338](#) Human

[SwissProt: Q9Y4P1](#) Human

[SwissProt: Q8BGE6](#) Mouse

[SwissProt: Q62625](#) Rat

[Unigene: 283610](#) Human

[Unigene: 29087](#) Mouse

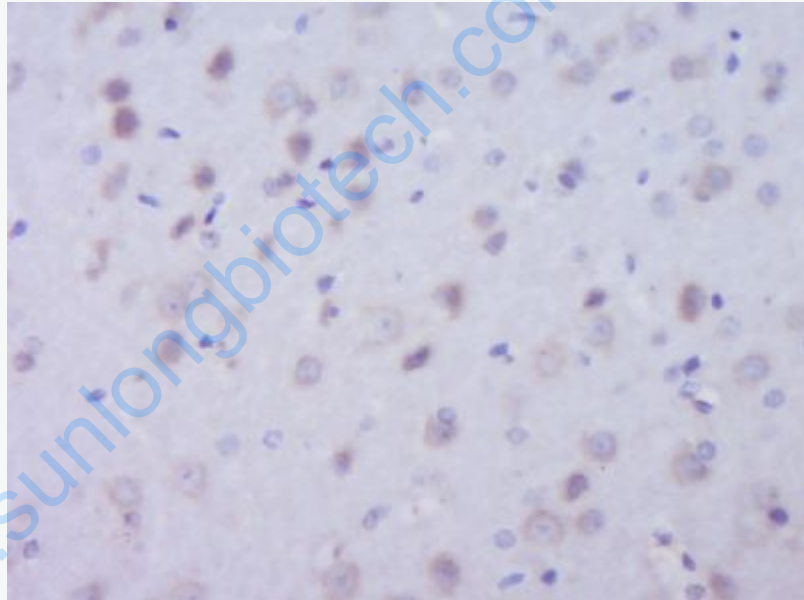
[Unigene: 163086](#) Rat

**Important Note:**

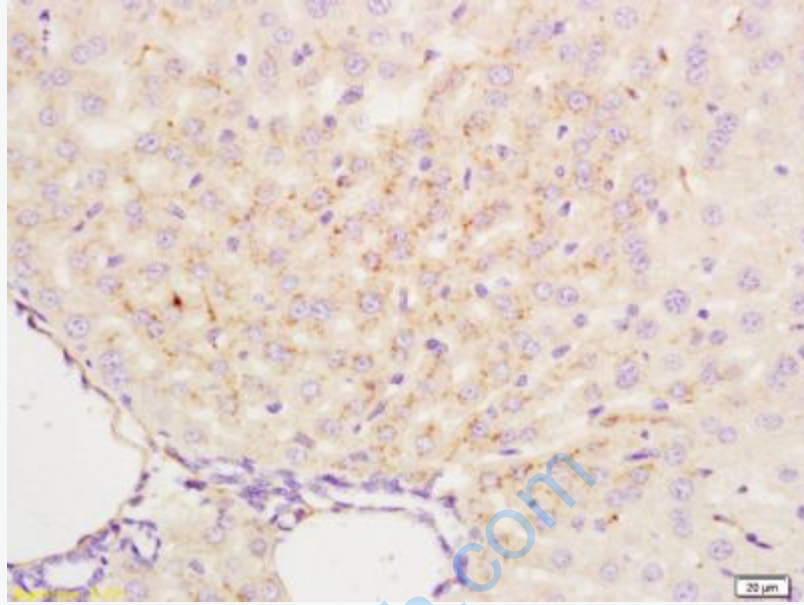
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Autophagy (Autophagy) 是一种非凋亡性的程序性细胞死亡即自噬性程序性细胞死亡, 进化过程中高度保守, 清除降解细胞内受损伤的细胞结构、衰老的细胞器、以及不再需要的生物大分子等, 在细胞的生长、发育和疾病发生中起着重要的作用。Autophagy 是一个高效调控过程, 特异性激酶和鸟嘌呤核苷酸磷酸酶 (GTPases) 在调节自噬通道活性中起着关键作用。

**Picture:**



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (APG4B) Polyclonal Antibody, Unconjugated (SL1384R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block  
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer  
(normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-APG4B/AUTL1 Polyclonal Antibody, Unconjugated(SL1384R)  
1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-  
0023) and DAB(C-0010) staining