



## Rabbit Anti-phospho-ATG4A (Ser100) antibody

SL5207R

<b>Product Name:</b>	phospho-ATG4A (Ser100)
<b>Chinese Name:</b>	磷酸化自噬相关蛋白4A抗体
<b>Alias:</b>	ATG4A (phospho Ser100); ATG4A (phospho S100); AI627006; Apg4a; ATG4 autophagy related 4 homolog A (S. cerevisiae); ATG4A; ATG4A_HUMAN; Atg4al; AUT like 2 cysteine endopeptidase; AUT-like 2 cysteine endopeptidase; Autl2; Autophagin 2; Autophagin-2; Autophagy related 4A cysteine peptidase; Autophagy related cysteine endopeptidase 2; Autophagy related protein 4 homolog A; Autophagy-related cysteine endopeptidase 2; Autophagy-related protein 4 homolog A; AV169859; Cysteine protease ATG4A; hAPG4A; MGC107179.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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>	45kDa
<b>Cellular localization:</b>	cytoplasmic <a href="#">Mitochondrion</a>
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human ATG4A around the phosphorylation site of Ser100:DW(p-S)WE
<b>Isotype:</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>	<p>ATG4A 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.</p> <p><b>Function:</b> 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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP.</p> <p><b>Subcellular Location:</b> Cytoplasm (Probable).</p> <p><b>Tissue Specificity:</b> Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver.</p> <p><b>Similarity:</b> Belongs to the peptidase C54 family.</p> <p><b>SWISS:</b> Q8WYN0</p> <p><b>Gene ID:</b> 115201</p> <p><b>Database links:</b></p> <p><a href="#">Entrez Gene: 115201</a>Human</p> <p><a href="#">Entrez Gene: 666468</a>Mouse</p> <p><a href="#">Omim: 300663</a>Human</p> <p><a href="#">SwissProt: Q8WYN0</a>Human</p> <p><a href="#">SwissProt: Q8C9S8</a>Mouse</p> <p><a href="#">Unigene: 8763</a>Human</p> <p><a href="#">Unigene: 102230</a>Mouse</p>

[Unigene: 393320](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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