



Rabbit Anti-ATG4A antibody

SL3873R

Product Name:	ATG4A
Chinese Name:	自噬相关蛋白4A抗体
Alias:	AI627006 ; APG4 autophagy 4 homolog A ; Apg4a ; ATG4 autophagy related 4 homolog A (S. cerevisiae) ; ATG4 autophagy related 4 homolog A ; 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 .
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,
Applications:	ELISA=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.
Molecular weight:	45kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATG4A:51-150/398
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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.

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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP.

Subcellular Location:

Cytoplasm (Probable).

Tissue Specificity:

Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver.

Similarity:

Belongs to the peptidase C54 family.

SWISS:

Q8WYN0

Gene ID:

115201

Database links:

[Entrez Gene: 115201](#)Human

[Entrez Gene: 666468](#)Mouse

[Omim: 300663](#)Human

[SwissProt: Q8WYN0](#)Human

[SwissProt: Q8C9S8](#)Mouse

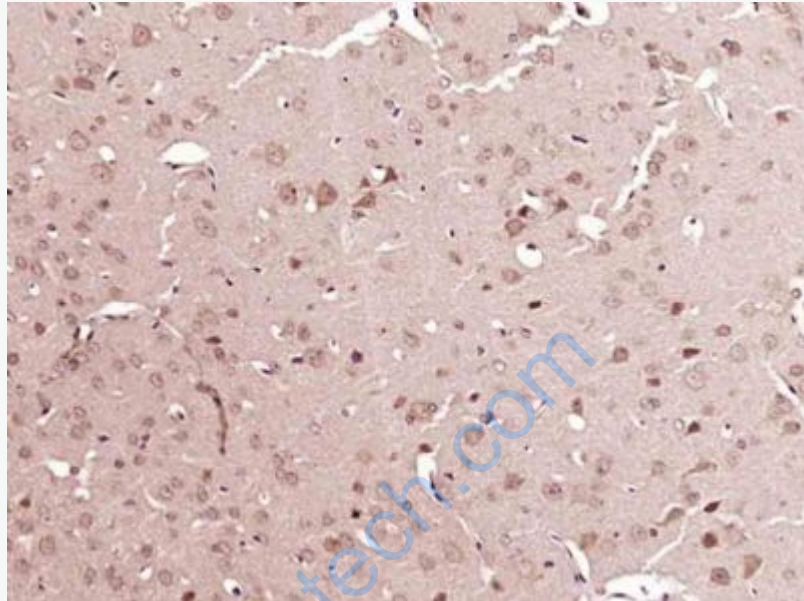
[Unigene: 8763](#)Human

[Unigene: 102230](#)Mouse

[Unigene: 393320](#)Mouse

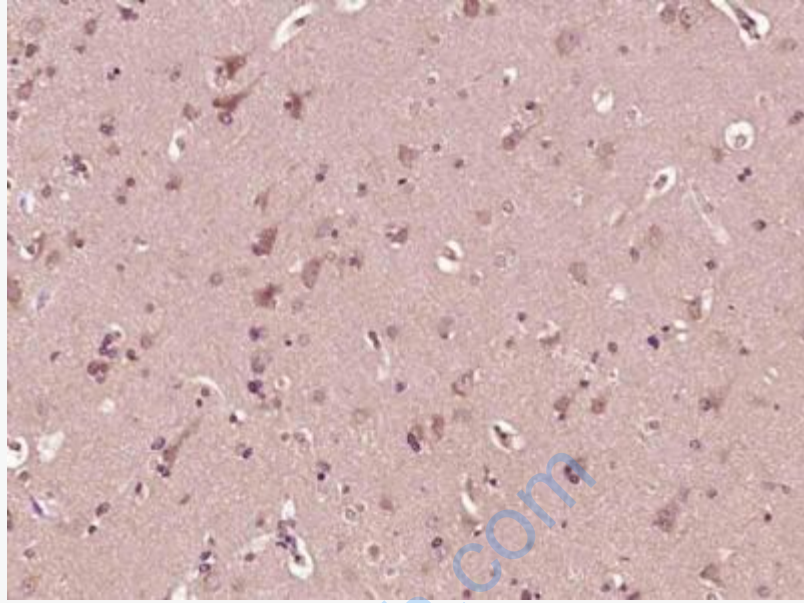
Important Note:

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

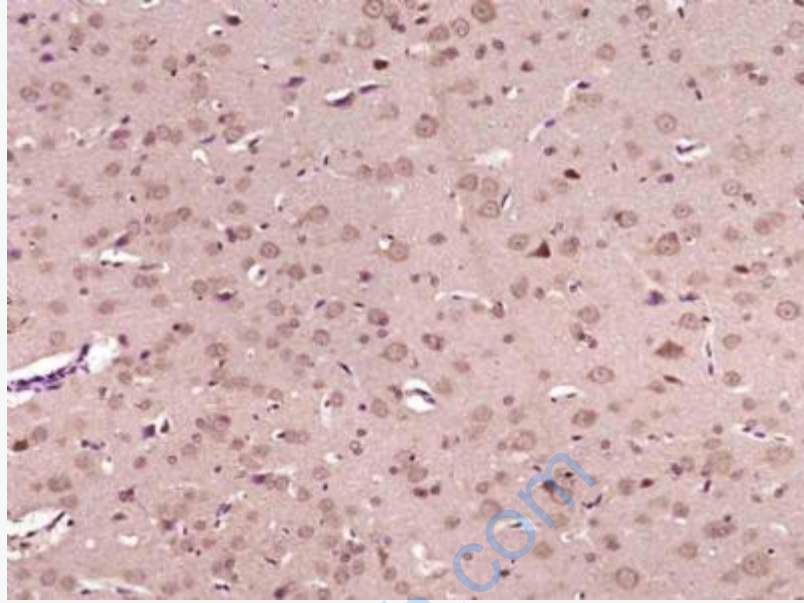


Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (ATG4A) Polyclonal Antibody, Unconjugated (SL3873R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); 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 (ATG4A) Polyclonal Antibody, Unconjugated (SL3873R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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 (ATG4A) Polyclonal Antibody, Unconjugated (SL3873R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.