

**ATG4c Rabbit Polyclonal Antibody**

<b>Catalog No :</b>	YN5672
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF
<b>Target :</b>	Atg4C
<b>Fields :</b>	>>Autophagy - other;>>Autophagy - animal
<b>Gene Name :</b>	ATG4C APG4C AUTL1 AUTL3
<b>Protein Name :</b>	Cysteine protease ATG4C (EC 3.4.22.-) (AUT-like 3 cysteine endopeptidase) (Autophagin-3) (Autophagy-related cysteine endopeptidase 3) (Autophagy-related protein 4 homolog C)
<b>Human Gene Id :</b>	84938
<b>Human Swiss Prot No :</b>	Q96DT6
<b>Mouse Swiss Prot No :</b>	Q811C2
<b>Immunogen :</b>	Recombinant Protein of ATG4c
<b>Specificity :</b>	The antibody detects endogenous ATG4c protein
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:50-300. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 57kD

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**Cell Pathway :** Regulation of autophagy;

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**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 the same protein, have been characterized. [provided by RefSeq, Jul 2008],

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**Function :** 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:Highly expressed in skeletal muscle, heart, liver and testis.,

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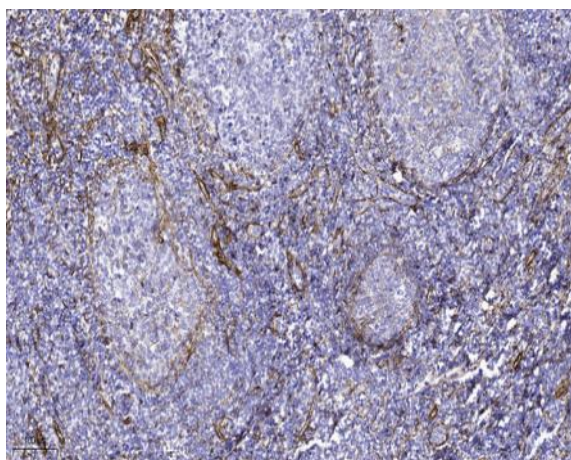
**Subcellular Location :** Cytoplasm .

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**Expression :** Brain,Heart,Placenta,Testis,

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## Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).