

ATG4a Rabbit Polyclonal Antibody

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| Catalog No : | YN5674 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | IHC;IF |
| Target : | ATG4A |
| Fields : | >>Autophagy - other;>>Autophagy - animal |
| Gene Name : | ATG4A APG4A AUTL2 |
| Protein Name : | Cysteine protease ATG4A (EC 3.4.22.-) (AUT-like 2 cysteine endopeptidase) (Autophagin-2) (Autophagy-related cysteine endopeptidase 2) (Autophagy-related protein 4 homolog A) (hAPG4A) |
| Human Gene Id : | 115201 |
| Human Swiss Prot No : | Q8WYN0 |
| Mouse Swiss Prot No : | Q8C9S8 |
| Immunogen : | Recombinant Protein of ATG4a |
| Specificity : | The antibody detects endogenous ATG4a protein |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | IHC 1:50-300. IF 1:50-200 |
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |

Observed Band : 45kD

Cell Pathway : Regulation of autophagy;

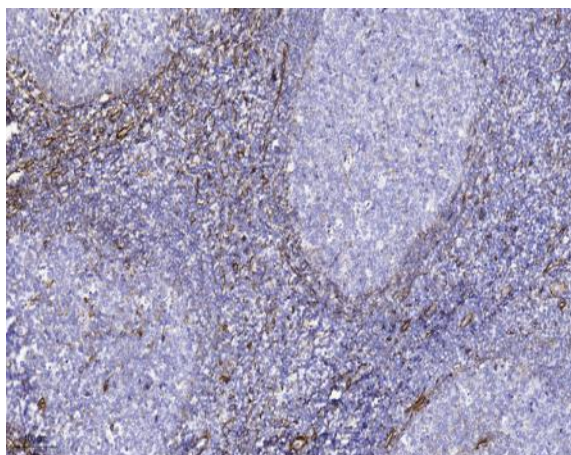
Background : Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy 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. [provided by RefSeq, Mar 2016],

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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP.,similarity:Belongs to the peptidase C54 family.,tissue specificity:Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver.,

Subcellular Location : Cytoplasm .

Expression : Epithelium,Kidney,Ovary,Prostate,Testis,

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).