

Atg4b Polyclonal Antibody

Catalog No :	YT0394
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	ATG4b
Fields :	>>Autophagy - other;>>Autophagy - animal
Gene Name :	ATG4B
Protein Name :	Cysteine protease ATG4B
Human Gene Id :	23192
Human Swiss Prot No :	Q9Y4P1
Mouse Gene Id :	66615
Mouse Swiss Prot No :	Q8BGE6
Immunogen :	The antiserum was produced against synthesized peptide derived from human ATG4B. AA range:71-120
Specificity :	Atg4b Polyclonal Antibody detects endogenous levels of Atg4b protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. 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 : 44kD

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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],

Function :

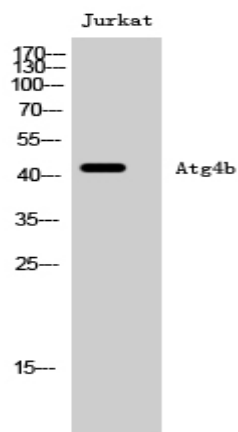
enzyme regulation:Inhibited by N-ethylmaleimide.,function:Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with 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:Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas.,

Subcellular Location :

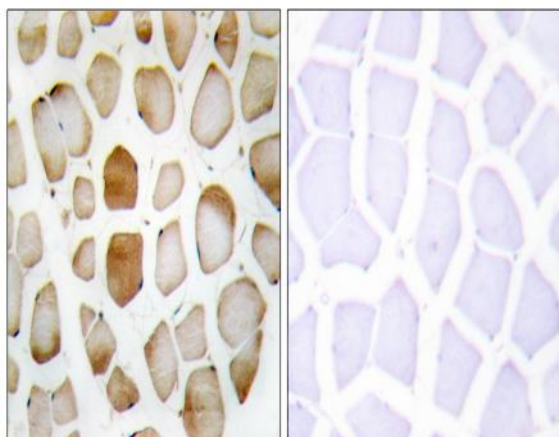
Cytoplasm . Cytoplasm, cytosol . Cytoplasmic vesicle, autophagosome . Endoplasmic reticulum . Mitochondrion . Mainly localizes to the cytoplasm, including cytosol (PubMed:29165041). A small portion localizes to mitochondria; phosphorylation at Ser-34 promotes localization to mitochondria (PubMed:29165041). .

Expression : Brain,Embryo,Endometrium,Epithelium,Hippocampus,Liver,Placenta,Test

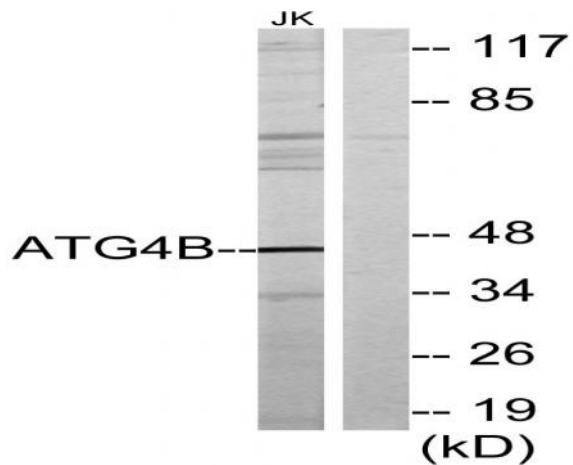
Products Images



Western Blot analysis of Jurkat cells using Atg4b Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using ATG4B Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using ATG4B Antibody. The lane on the right is blocked with the synthesized peptide.