

ATG5 rabbit pAb

Catalog No :	YT7796
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	ATG5
Fields :	>>Autophagy - other;>>Mitophagy - animal;>>Autophagy - animal;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Ferroptosis;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>Shigellosis
Gene Name :	ATG5 APG5L ASP
Protein Name :	ATG5
Human Gene Id :	9474
Human Swiss Prot No :	Q9H1Y0
Mouse Gene Id :	11793
Mouse Swiss Prot No :	Q99J83
Rat Swiss Prot No :	Q3MQ06
Immunogen :	Synthesized peptide derived from human ATG5 AA range: 180-260
Specificity :	This antibody detects endogenous levels of Human,Mouse,Rat ATG5
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000
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)

Molecularweight : 30kD

Observed Band : 51kD

Background : The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Sep 2015],

Function : function: May play an important role in the apoptotic process, possibly within the modified cytoskeleton. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity., function: Required for autophagy. Conjugates to ATG12 and associates with isolation membrane to form cup-shaped isolation membrane and autophagosome. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed., induction: By apoptotic stimuli., PTM: Conjugated to ATG12; which is essential for autophagy, but is not required for association with isolation membrane., similarity: Belongs to the ATG5 family., subcellular location: Colocalizes with nonmuscle actin., tissue specificity: Ubiquitous. The mRNA is present at similar levels in viable and apoptotic cells, whereas the protein is dramatically highly expressed in apoptotic cells.,

Subcellular Location : Cytoplasm . Preautophagosomal structure membrane; Peripheral membrane protein. Colocalizes with nonmuscle actin. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed (By similarity). Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme. .

Expression : Ubiquitous. The mRNA is present at similar levels in viable and apoptotic cells, whereas the protein is dramatically highly expressed in apoptotic cells.

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