

APG7 rabbit pAb

Catalog No :	YT7863
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	APG7
Fields :	>>Autophagy - other;>>Autophagy - animal;>>Ferroptosis;>>Neutrophil extracellular trap formation
Gene Name :	ATG7 APG7L
Protein Name :	APG7
Human Gene Id :	10533
Human Swiss Prot No :	O95352
Mouse Gene Id :	74244
Mouse Swiss Prot No :	Q9D906
Rat Gene Id :	312647
Rat Swiss Prot No :	Q641Y5
Immunogen :	Synthesized peptide derived from human APG7 AA range: 521-570
Specificity :	This antibody detects endogenous levels of Human,Mouse,Rat APG7
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 :	77kD
Background :	This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015],
Function :	domain:The C-terminal part of the protein is essential for the dimerization and interaction with ATG3 and ATG12.,function:Functions as an E1 enzyme essential for multisubstrates such as GABARAPL1 and ATG12. Forms intermediate conjugates with GABARAPL1 (GABARAPL2, GABARAP or MAP1ALC3). Formation of the final GABARAPL1-PE conjugate is essential for autophagy.,similarity:Belongs to the ATG7 family.,subunit:Homodimer (By similarity). Interacts with ATG3 and ATG12. The complex, composed of ATG3 and ATG7, plays a role in the conjugation of ATG12 to ATG5.,tissue specificity:Widely expressed, especially in kidney, liver, lymph nodes and bone marrow.,
Subcellular Location :	Cytoplasm . Preautophagosomal structure . Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme. .
Expression :	Widely expressed, especially in kidney, liver, lymph nodes and bone marrow.

Products Images