



Rabbit Anti-APG8A antibody

SL12487R

Product Name:	APG8A
Chinese Name:	自噬相关蛋白8A抗体
Alias:	APG8A (autophagy 8A); AT4G21980; ATG8; ATG8A; Autophagy 8A; Autophagy related protein 8a; Autophagy related ubiquitin like modifier ATG8a; F1N20.80; F1N20_80; ATG8A_ARATH.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Arabidopsis thaliana
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	13kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Arabidopsis thaliana APG8A:1-100/122
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 癆 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20癆. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 癆.
PubMed:	PubMed
Product Detail:	APG8A is involved in cytoplasm to vacuole transport (Cvt) vesicles and autophagosomes formation. It may mediate the delivery of the vesicles and autophagosomes to the vacuole via the microtubule cytoskeleton.

Function:

Involved in cytoplasm to vacuole transport (Cvt) vesicles and autophagosomes formation. May mediate the delivery of the vesicles and autophagosomes to the vacuole via the microtubule cytoskeleton.

Subunit:

Interacts with ATG4b.

Subcellular Location:

Cytoplasmic vesicle ?cvt vesicle membrane; Lipid-anchor. Cytoplasmic vesicle ?autophagosome membrane; Lipid-anchor. Vacuole membrane; Lipid-anchor. Note= Membrane-associated through a lipid anchor.

Post-translational modifications:

The C-terminal 5 residues are removed by ATG4 to expose Gly-117 at the C-terminus. This Gly-117 forms then a thioester bond with the 'Cys-558' of ATG7 (E1-like activating enzyme) before being transferred to the 'Cys-258' of ATG3 (the specific E2 conjugating enzyme), in order to be finally amidated with phosphatidylethanolamine. This lipid modification anchors ATG8 to autophagosomes (By similarity).

Similarity:

Belongs to the MAP1 LC3 family.

Database links:

UniProtKB/Swiss-Prot: Q8LEM4.2

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.