



Rabbit Anti-ATG14 antibody

SL7462R

Product Name:	ATG14
Chinese Name:	自噬相关蛋白14抗体
Alias:	4832427M01; ATG14; Atg14L; Autophagy-related protein 14-like protein; BAKOR_HUMAN; Barkor; Beclin 1-associated autophagy-related key regulator; D14Ertd114e; D14Ertd436e; KIAA0831; mCG_6911.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
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:	55kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATG14:41-140/492
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 °C 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°C. 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 °C.
PubMed:	PubMed
Product Detail:	Required for both basal and inducible autophagy. Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine. Promotes BECN1 translocation from the trans-Golgi network to autophagosomes. Enhances PIK3C3 activity in a BECN1-dependent manner.

Function:

Required for both basal and inducible autophagy. Determines the localization of the autophagy-specific PI3-kinase complex. Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine. Promotes BECN1 translocation from the trans-Golgi network to autophagosomes. Enhances PIK3C3 activity in a BECN1-dependent manner.

Subunit:

Component of the autophagy-specific PI3-kinase complex I composed of ATG14, BECN1, PIK3C3 and PIK3R4, but not UVRAG, nor KIAA0226/Rubicon. UVRAG and ATG14/Barkor form mutually exclusive complexes with BECN1 through direct competition. The complex containing ATG14 up-regulates autophagy, while the one containing Rubicon down-regulates autophagy (By similarity). Interacts with PIK3CB (By similarity). Interacts with BECN1P1/BECN2.

Subcellular Location:

Cytoplasm. Endoplasmic reticulum. Cytosolic under nutrient-rich conditions. Following autophagy stimuli, such as starvation or rapamycin induction, predominantly detected in cytoplasmic foci, identified as isolation membranes and autophagosomes.

Similarity:

Belongs to the Barkor family.

SWISS:

Q6ZNE5

Gene ID:

22863

Database links:

[Entrez Gene: 22863](#) Human

[Entrez Gene: 100504663](#) Mouse

[Entrez Gene: 305831](#) Rat

[Omim: 613515](#) Human

[SwissProt: Q6ZNE5](#) Human

[SwissProt: Q8CDJ3](#) Mouse

[SwissProt: D4A4K3](#) Rat

[Unigene: 414809](#) Human

[Entrez Gene: 22863](#)Human

- [Entrez Gene: 100504663](#)Mouse
- [Entrez Gene: 305831](#) Rat
- [Omim: 613515](#) Human
- [SwissProt: Q6ZNE5](#) Hun
- [SwissProt: Q8CDJ3](#) Mouse[SwissProt: D4A4K3](#)Rat
- [Unigene: 414809](#)Human

Important Note:

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

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