

ATG14 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1832A**Specification**

ATG14 Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	Q6ZNE5
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	55309
Antigen Region	55-84

ATG14 Antibody (N-term) - Additional Information**Gene ID** 22863**Other Names**

Beclin 1-associated autophagy-related key regulator, Barkor, Autophagy-related protein 14-like protein, Atg14L, ATG14, KIAA0831

Target/Specificity

This ATG14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-84 amino acids from the N-terminal region of human ATG14.

Dilution

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ATG14 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATG14 Antibody (N-term) - Protein Information**Name** ATG14 {ECO:0000303|PubMed:18843052}

Function Required for both basal and inducible autophagy. Determines the localization of the autophagy-specific PI3-kinase complex PI3KC3-C1 (PubMed:[18843052](#), PubMed:[19050071](#)). Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine (PubMed:[19270696](#), PubMed:[20713597](#)). Promotes BECN1 translocation from the trans-Golgi network to autophagosomes (PubMed:[20713597](#)). Enhances PIK3C3 activity in a BECN1-dependent manner. Essential for the autophagy-dependent phosphorylation of BECN1 (PubMed:[23878393](#)). Stimulates the phosphorylation of BECN1, but suppresses the phosphorylation PIK3C3 by AMPK (PubMed:[23878393](#)). Binds to STX17-SNAP29 binary t-SNARE complex on autophagosomes and primes it for VAMP8 interaction to promote autophagosome-endolysosome fusion (PubMed:[25686604](#), PubMed:[37632749](#)). Modulates the hepatic lipid metabolism (By similarity).

Cellular Location

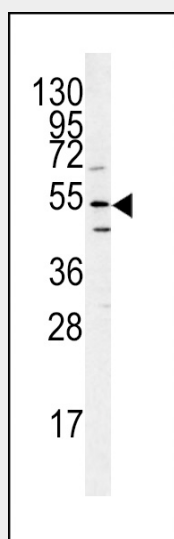
Cytoplasm. Endoplasmic reticulum membrane; Peripheral membrane protein. Preautophagosomal structure membrane; Peripheral membrane protein. Cytoplasmic vesicle, autophagosome membrane; Peripheral membrane protein. Note=Cytosolic under nutrient-rich conditions (PubMed:19050071). Following autophagy stimuli, such as starvation or rapamycin induction, predominantly detected in cytoplasmic foci, identified as isolation membranes and autophagosomes (PubMed:19050071). Accumulates on highly curved PtdIns(3)P enriched autophagic membrane via its BATS domain to sense and maintain membrane curvature (By similarity). Also localizes to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme (By similarity). {ECO:0000250|UniProtKB:Q8CDJ3}

ATG14 Antibody (N-term) - Protocols

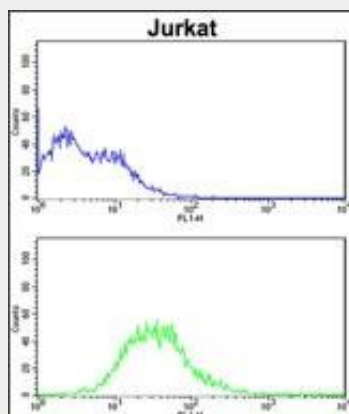
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ATG14 Antibody (N-term) - Images



Western blot analysis of ATG14 antibody (N-term) (Cat.# AP1832a) in mouse heart tissue lysates (35ug/lane). ATG14 (arrow) was detected using the purified Pab.



ATG14 Antibody (N-term) (Cat. #AP1832a) flow cytometric analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ATG14 Antibody (N-term) - References

Sun, Q., Proc. Natl. Acad. Sci. U.S.A. 105 (49), 19211-19216 (2008)