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ATG2A Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13648c

Specification

ATG2A Antibody (Center) Blocking peptide - Product Information

Primary Accession Q2TAZ0

ATG2A Antibody (Center) Blocking peptide - Additional Information

Gene ID 23130

Other Names
Autophagy-related protein 2 homolog A, ATG2A, KIAA0404

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13648c was selected from the Center region of ATG2A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ATG2A Antibody (Center) Blocking peptide - Protein Information

Name ATG2A {ECO:0000303|PubMed:21887408, ECO:0000312|HGNC:HGNC:29028}

Function
Lipid transfer protein involved in autophagosome assembly (PubMed:28561066, PubMed:31271352, PubMed:30952800). Tethers the edge of the isolation membrane (IM) to the endoplasmic reticulum (ER) and mediates direct lipid transfer from ER to IM for IM expansion (PubMed:31271352, PubMed:30952800). Binds to the ER exit site (ERES), which is the membrane source for autophagosome formation, and extracts phospholipids from the membrane source and transfers them to ATG9 (ATG9A or ATG9B) to the IM for membrane expansion (PubMed:31271352, PubMed:30952800). Lipid transfer activity is enhanced by WIPI1 and WDR45/WIPI4,

which promote ATG2A-association with phosphatidylinositol 3-monophosphate (PI3P)-containing membranes (PubMed:31271352). Also regulates lipid droplets morphology and distribution within the cell (PubMed:22219374, PubMed:28561066).

Cellular Location
Preautophagosomal structure membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q96BY7}. Lipid droplet {ECO:0000250|UniProtKB:Q96BY7}. Endoplasmic reticulum membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P53855}. Note=Localizes to endoplasmic reticulum-autophagosome contact sites.

ATG2A Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

ATG2A Antibody (Center) Blocking peptide - Images

ATG2A Antibody (Center) Blocking peptide - Background

The function of this protein remains unknown.

ATG2A Antibody (Center) Blocking peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Guru, S.C., et al. Genome Res. 7(7):725-735(1997)