

ATG2B Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13467a**Specification**

ATG2B Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q96BY7](#)**ATG2B Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 55102

Other Names

Autophagy-related protein 2 homolog B, ATG2B, C14orf103

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13467a was selected from the N-term region of ATG2B. 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.

ATG2B Antibody (N-term) Blocking peptide - Protein Information**Name** ATG2B {ECO:0000303|PubMed:22219374, ECO:0000312|HGNC:HGNC:20187}**Function**

Lipid transfer protein required for both autophagosome formation and regulation of lipid droplet morphology and dispersion (PubMed:22219374, PubMed:31721365). 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:22219374, PubMed:31721365). 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 (By similarity). Lipid transfer activity is enhanced by WDR45/WIPI4, which promotes ATG2B-association with phosphatidylinositol 3-monophosphate (PI3P)-containing membranes (PubMed:31721365).

Cellular Location

Preautophagosomal structure membrane; Peripheral membrane protein. Lipid droplet.
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P53855}; Peripheral membrane protein {ECO:0000250|UniProtKB:P53855}

ATG2B Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ATG2B Antibody (N-term) Blocking peptide - Images**ATG2B Antibody (N-term) Blocking peptide - Background**

The specific function of the protein remains unknown.

ATG2B Antibody (N-term) Blocking peptide - References

Kang, M.R., et al. J. Pathol. 217(5):702-706(2009)Xie, H., et al. Genomics 83(4):572-576(2004)Heilig, R., et al. Nature 421(6923):601-607(2003)