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ATG2B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13467a

Specification

ATG2B Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q96BY7
Other Accession	NP_060506.5
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**118-146**

ATG2B Antibody (N-term) - Additional Information

Gene ID 55102

Other Names
Autophagy-related protein 2 homolog B, ATG2B, C14orf103

Target/Specificity
This ATG2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-146 amino acids from the N-terminal region of human ATG2B.

Dilution
WB~~1:2000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
ATG2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATG2B Antibody (N-term) - 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).

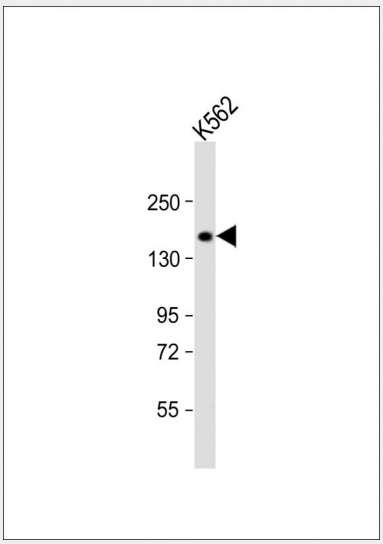
Cellular Location
Preautophagosomal structure membrane; Peripheral membrane protein. Lipid droplet. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P53855}; Peripheral membrane protein {ECO:0000250|UniProtKB:P53855}

ATG2B Antibody (N-term) - Protocols

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

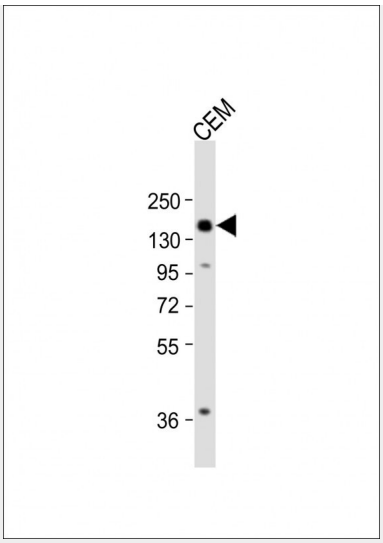
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ATG2B Antibody (N-term) - Images



Anti-ATG2B Antibody (N-term) at 1:2000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 232 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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Anti-ATG2B Antibody (N-term) at 1:2000 dilution + CEM whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 232 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ATG2B Antibody (N-term) - Background

The specific function of the protein remains unknown.

ATG2B Antibody (N-term) - 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)