10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ATG2B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13467a

Product Information

Application	WB, E
Primary Accession	Q96BY7
Other Accession	NP_060506.5
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33277
Calculated MW	232763
Antigen Region	118-146

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~~1:1000 E~~Use at an assay dependent concentration.
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.

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}

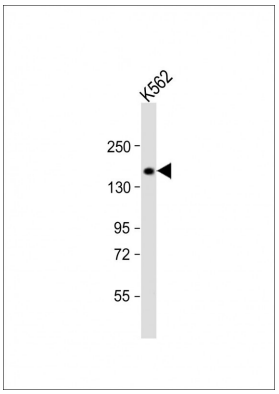
Background

The specific function of the protein remains unknown.

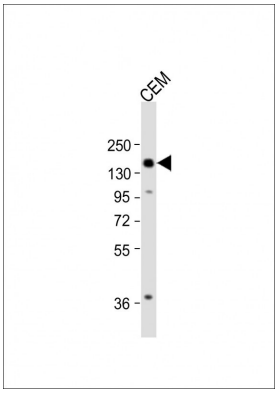
References

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)

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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.