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ATG13 Antibody (Center S355.)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19789c

Product Information

Application	WB, E
Primary Accession	O75143
Other Accession	Q91YI1, NP_001136145.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40773
Calculated MW	56572
Antigen Region	333-362

Additional Information

Gene ID	9776
Other Names	Autophagy-related protein 13, ATG13, KIAA0652
Target/Specificity	This ATG13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 333-362 amino acids from the Central region of human ATG13.
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	ATG13 Antibody (Center S355.) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ATG13
Synonyms	KIAA0652
Function	Autophagy factor required for autophagosome formation and mitophagy.

	Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex. Through its regulation of ULK1 activity, plays a role in the regulation of the kinase activity of mTORC1 and cell proliferation.
Cellular Location	Cytoplasm, cytosol. Preautophagosomal structure. Note=Under starvation conditions, is localized to puncate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation

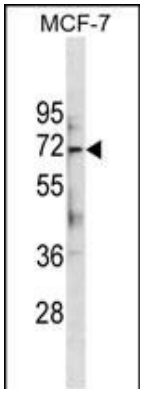
Background

Autophagy factor required for autophagosome formation. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex.

References

Ferreira, R.C., et al. Nat. Genet. 42(9):777-780(2010)
Hosokawa, N., et al. Autophagy 5(7):973-979(2009)
Mercer, C.A., et al. Autophagy 5(5):649-662(2009)
Ganley, I.G., et al. J. Biol. Chem. 284(18):12297-12305(2009)
Chan, E.Y., et al. Mol. Cell. Biol. 29(1):157-171(2009)

Images



ATG13 Antibody (Center S355.) (Cat. #AP19789c) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the ATG13 antibody detected the ATG13 protein (arrow).

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