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Phospho-ATG13(S355) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3834a

Product Information

Application	DB, E
Primary Accession	O75143
Other Accession	Q91YI1, NP_001136145.1, NP_055556.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40774
Calculated MW	56572

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 phosphopeptide corresponding to amino acid residues surrounding S355 of human ATG13.
Dilution	DB~~1:500 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	Phospho-ATG13(S355) Antibody 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

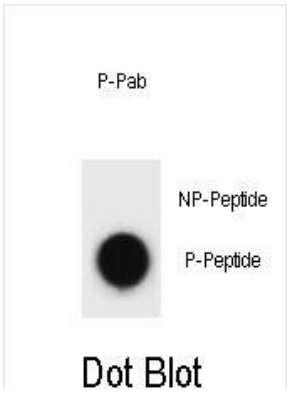
Background

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



Dot blot analysis of ATG13 Antibody (Phospho S355) Phospho-specific Pab (Cat. #AP3834a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.