

**Phospho-ATG13(S355) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3834a**

**Specification**

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**Phospho-ATG13(S355) Antibody - Product Information**

Application	DB,E
Primary Accession	<a href="#">O75143</a>
Other Accession	<a href="#">O91YI1</a> , <a href="#">NP_001136145.1</a> , <a href="#">NP_055556.2</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56572

**Phospho-ATG13(S355) Antibody - 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

**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.

**Phospho-ATG13(S355) Antibody - 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**

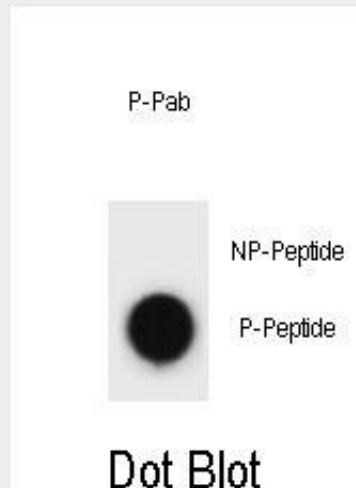
Cytoplasm, cytosol. Preautophagosomal structure. Note=Under starvation conditions, is localized to punctate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation

### **Phospho-ATG13(S355) Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Phospho-ATG13(S355) Antibody - 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.

### **Phospho-ATG13(S355) Antibody - 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.

### **Phospho-ATG13(S355) Antibody - 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)  
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