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

Specification

Phospho-ATG13(S355) Antibody - 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**
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.

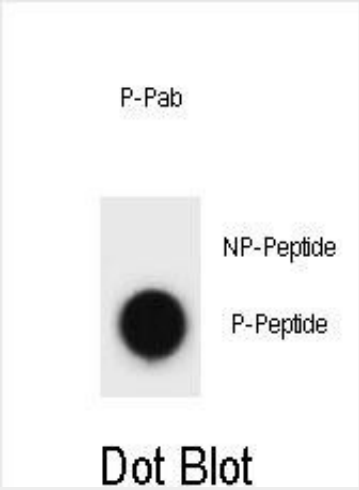
Cellular Location
Cytoplasm, cytosol. Preautophagosomal structure. Note=Under starvation conditions, is localized to puncate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation

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 Cytomety
- 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

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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)