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ATG13 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9928a

Specification

ATG13 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O75143
Other Accession	Q08DY8
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**56572**
Antigen Region	**1-30**

ATG13 Antibody (N-term) - 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 1-30 amino acids from the N-terminal region of human ATG13.

Dilution
WB~~1:1000
IHC-P~~1:50~100

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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATG13 Antibody (N-term) - Protein Information

Name ATG13

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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.

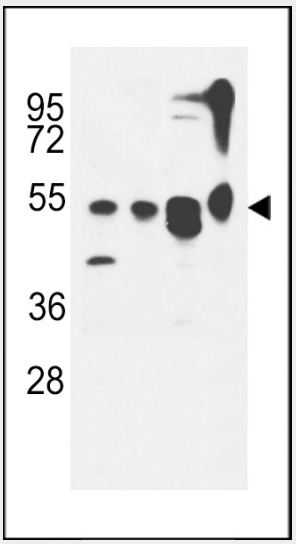
Cellular Location
Cytoplasm, cytosol. Preautophagosomal structure. Note=Under starvation conditions, is localized to puncate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation

ATG13 Antibody (N-term) - 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

ATG13 Antibody (N-term) - Images



ATG13 Antibody (N-term) (Cat. #AP9928a) western blot analysis in MDA-MB435,CEM,T47D cell line and mouse cerebellum tissue lysates (35ug/lane).This demonstrates the ATG13 antibody detected the ATG13 protein (arrow).

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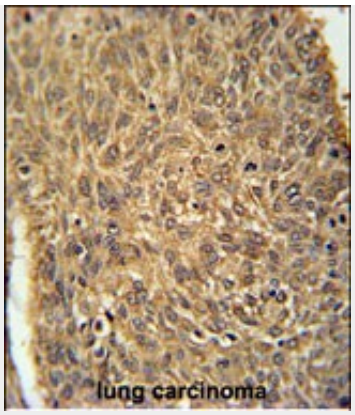

ATG13 Antibody (N-term) (Cat. #AP9928a) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATG13 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ATG13 Antibody (N-term) - References

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) Jung, C.H., et al. Mol. Biol. Cell 20(7):1992-2003(2009) Hosokawa, N., et al. Mol. Biol. Cell 20(7):1981-1991(2009)