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ATG13 Blocking Peptide (Center S355.)

Synthetic peptide
Catalog # BP19789c

Specification

ATG13 Blocking Peptide (Center S355.) - Product Information

Primary Accession	O75143
Other Accession	O91YI1, NP_001136145.1

ATG13 Blocking Peptide (Center S355.) - Additional Information

Gene ID 9776

Other Names
Autophagy-related protein 13, ATG13, KIAA0652

Target/Specificity
The synthetic peptide sequence is selected from aa 348-362 of HUMAN ATG13

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ATG13 Blocking Peptide (Center S355.) - Protein Information

Name ATG13

Synonyms KIAA0652

Function
Autophagy factor required for autophagosome formation and mitophagy.

ATG13 Blocking Peptide (Center S355.) - 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.

ATG13 Blocking Peptide (Center S355.) - 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)

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 Blocking Peptide (Center S355.) - Protocols

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

- Blocking Peptides