

Anti-KIAA0652 Picoband Antibody

Catalog # ABO12168

Product Information

Application	WB
Primary Accession	O75143
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Autophagy-related protein 13(ATG13) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	9776
Other Names	Autophagy-related protein 13, ATG13, KIAA0652
Calculated MW	56572
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse
Subcellular Localization	Cytoplasm, cytosol . Preautophagosomal structure . 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. .
Source	Eukaryota
Protein Name	Autophagy-related protein 13
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human KIAA0652 (488-517aa MAEDLDSLPEKLAVHEKNVREFDAFVETLQ), identical to the related mouse sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the ATG13 metazoan family.

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

Background

Autophagy-related protein 13, also known as ATG13, is a protein that in humans is encoded by the KIAA0652 gene. ATG13 is an autophagy factor required for phagosome formation. It is located on 11p11.2. And ATG13 is a target of the TOR kinase signaling pathway that regulates autophagy through phosphorylation of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex.

Images



Anti- KIAA0652 Picoband antibody, ABO12168, Western blotting
All lanes: Anti KIAA0652 (ABO12168) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: HEPA Whole Cell Lysate at 40ug
Predicted bind size: 56KD
Observed bind size: 56KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.