

Anti-KIAA0652 Picoband Antibody
Catalog # ABO12168**Specification**

Anti-KIAA0652 Picoband Antibody - 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.

Anti-KIAA0652 Picoband Antibody - Additional Information

Gene ID 9776

Other Names

Autophagy-related protein 13, ATG13, KIAA0652

Calculated MW

56572 MW KDa

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. .

Protein Name

Autophagy-related protein 13

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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.

Anti-KIAA0652 Picoband 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.

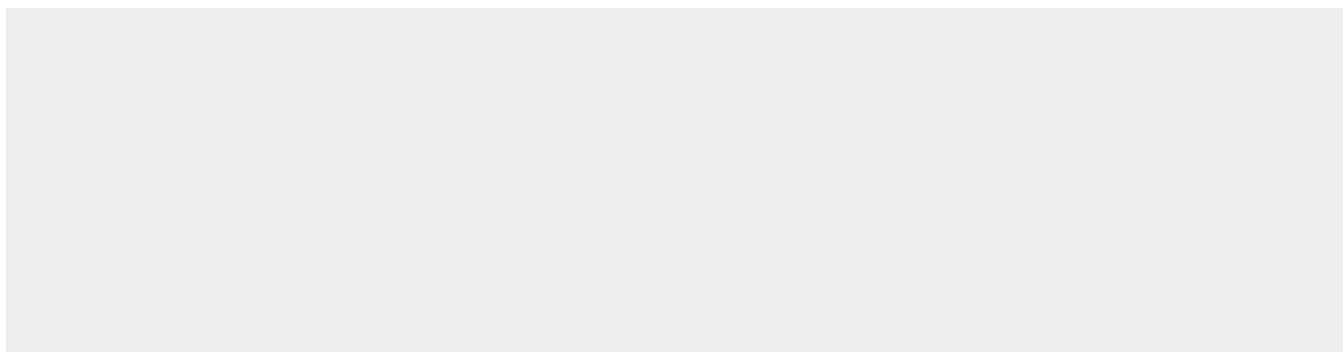
Cellular Location

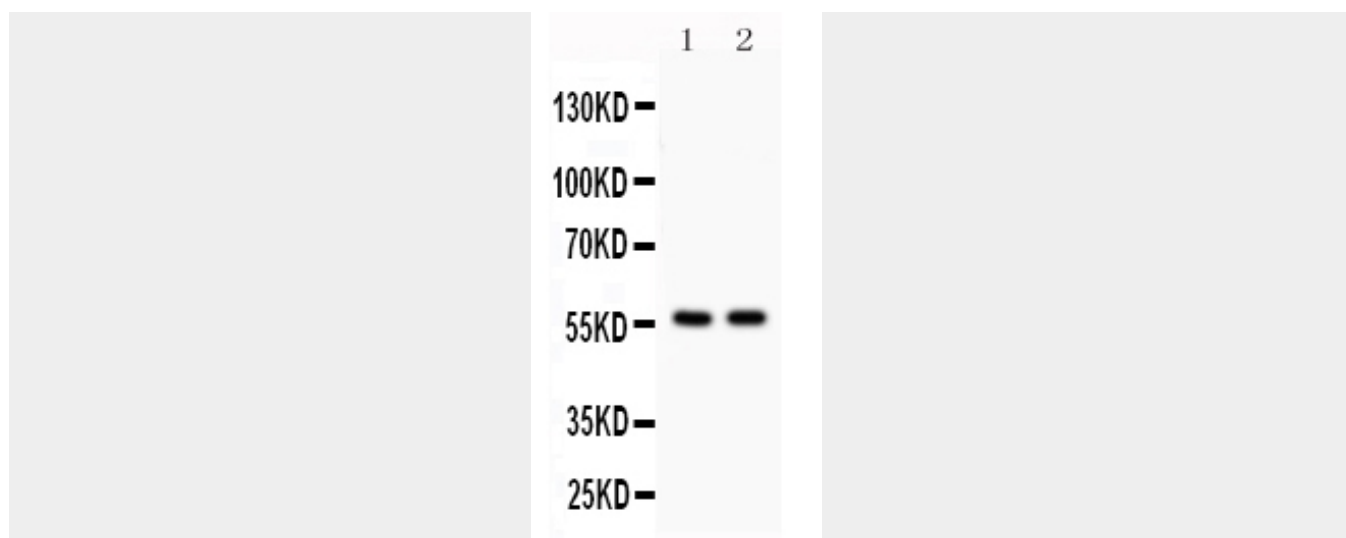
Cytoplasm, cytosol. Preautophagosomal structure. Note=Under starvation conditions, is localized to punctate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation

Anti-KIAA0652 Picoband 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](#)

Anti-KIAA0652 Picoband Antibody - 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

Anti-KIAA0652 Picoband Antibody - 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.