abcam

Product datasheet

Anti-KIAA0652/ATG13 antibody ab105392

1 Abreviews 7 References 1 Image

Overview

Product name	Anti-KIAA0652/ATG13 antibody
Description	Rabbit polyclonal to KIAA0652/ATG13
Host species	Rabbit
Specificity	ab105392 is predicted to not cross-react with other ATG members. Two isoforms of KIAA0652/ATG13 are known to exist; this antibody will recognize both isoforms.
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human KIAA0652/ATG13 (C terminal). Database link: **NP_001136145**
Positive control	WB: Rat heart tissue lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab105392 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (1)	Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 57 kDa.
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Target

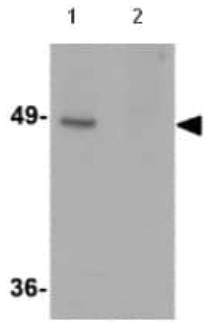
Function Autophagy factor required for autophagosome formation. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex.

Sequence similarities Belongs to the ATG13 metazoan family.

Post-translational modifications Phosphorylated by ULK1 and ULK2. Phosphorylation status depends on nutrient-rich conditions; dephosphorylated during starvation or following treatment with rapamycin.

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

Images



Western blot - Anti-KIAA0652/ATG13 antibody (ab105392)

All lanes : Anti-KIAA0652/ATG13 antibody (ab105392) at 1 µg/ml

Lane 1 : Rat heart tissue lysate without blocking peptide

Lane 2 : Rat heart tissue lysate with blocking peptide

Lysates/proteins at 15 µg per lane.

Predicted band size: 57 kDa

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