

Product datasheet

Anti-ATG16L1 antibody ab106354

3 Images

Overview

Product name	Anti-ATG16L1 antibody
Description	Rabbit polyclonal to ATG16L1
Tested applications	Suitable for: ICC/IF, WB, ICC
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to 18 amino acids from near the center of human ATG16L1 (NP_110430).
Positive control	HeLa cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months).
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1X PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab106354** in the following tested applications.

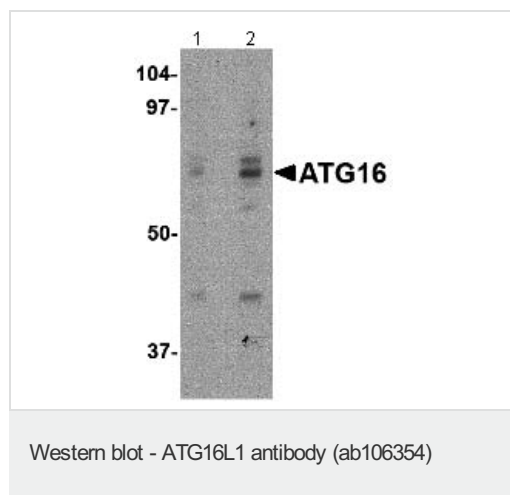
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 20 µg/ml.
WB		Use a concentration of 0.25 - 0.5 µg/ml. Predicted molecular weight: 68 kDa.
ICC		Use a concentration of 2 µg/ml.

Target

Function	Plays an essential role in autophagy: interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C), to produce a membrane-bound activated form of LC3 named LC3-II. Thereby, controls the elongation of the nascent autophagosomal membrane.
Involvement in disease	Inflammatory bowel disease 10
Sequence similarities	Belongs to the WD repeat ATG16 family. Contains 7 WD repeats.
Post-translational modifications	Proteolytic cleavage by activated CASP3 leads to degradation and may regulate autophagy upon cellular stress and apoptotic stimuli.
Cellular localization	Cytoplasm. Preautophagosomal structure membrane. Recruited to omegasomes membranes by WIPI2. Omegasomes are endoplasmic reticulum connected structures at the origin of preautophagosomal structures. Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5. Localizes also to discrete punctae along the ciliary axoneme.
Form	There are 4 isoforms produced by alternative splicing.

Images



Lane 1 : Anti-ATG16L1 antibody (ab106354)
at 0.25 µg/ml

Lane 2 : Anti-ATG16L1 antibody (ab106354)
at 0.5 µg/ml

Lane 1 : HeLa Cell lysate

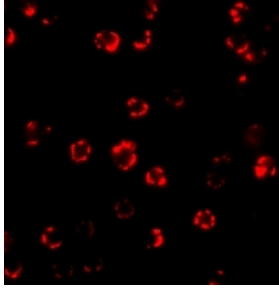
Lane 2 : HeLa Cell lysate

Lysates/proteins at 15 µg per lane.

Predicted band size : 68 kDa



Immunocytochemistry of ATG16 in HeLa cells
with ATG16 antibody (ab106354) at 2 µg/ml.



Immunofluorescence of ATG16 in HeLa cells
using ab106354 at 4 ug/ml.

Immunocytochemistry/ Immunofluorescence-Anti-
ATG16L1 antibody(ab106354)

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