

## Product datasheet

# Anti-ATG16L1 antibody ab106354

[3 Images](#)

### Overview

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

### Properties

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

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### 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.

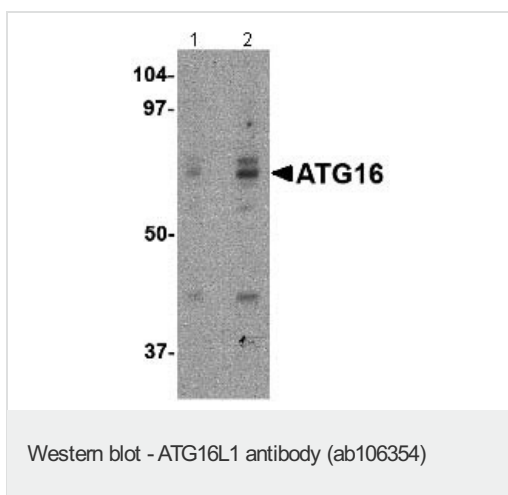
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## Form

There are 4 isoforms produced by alternative splicing.

## Anti-ATG16L1 antibody images

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**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.

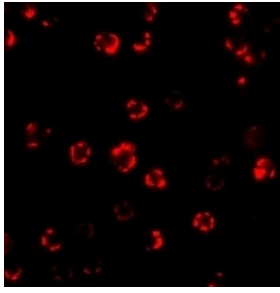
**Predicted band size** : 68 kDa

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

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

Immunocytochemistry/ Immunofluorescence-Anti-  
ATG16L1 antibody(ab106354)

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