

Product datasheet

Anti-ATG16L1 antibody ab223238

1 Image

Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-ATG16L1 antibody   |
| <b>Description</b>         | Goat polyclonal to ATG16L1  |
| <b>Host species</b>        | Goat  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse<br><b>Predicted to work with:</b> Rat, Dog, Human, Orangutan   |
| <b>Immunogen</b>           | Synthetic peptide corresponding to Human ATG16L1 aa 567-581 (internal sequence) (Cysteine residue). NP_110430.5; NP_060444.3.<br>Sequence:<br>C-KVEKVLISKQHSSIN<br><br>Database link: <a href="#">Q676U5</a><br><br> <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> |
| <b>Positive control</b>    | WB: Mouse brain lysate.   |

Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.                  |
| <b>Storage buffer</b>       | pH: 7.30<br>Preservative: 0.02% Sodium azide<br>Constituents: 0.5% BSA, Tris buffered saline   |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Purification notes</b>   | ab223238 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | IgG  |

Applications

Our [Abpromise guarantee](#) covers the use of **ab223238** in the following tested applications.

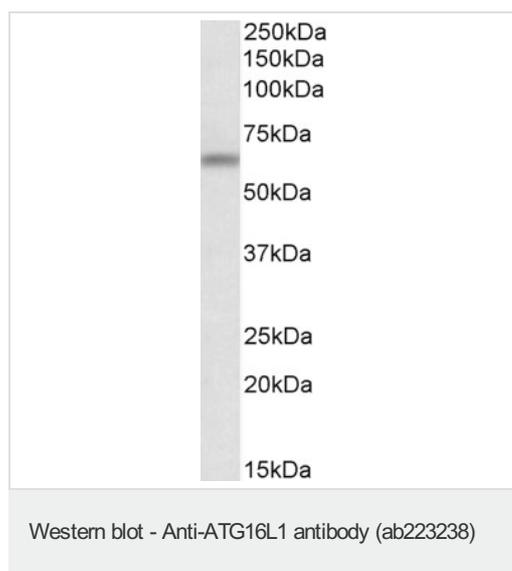
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes   |
|-------------|-----------|---|
| WB          |           | Use a concentration of 0.01 - 0.1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 68.1 kDa). |

## Target

|   |  |
|---|--|
| <b>Function</b>                         | 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.  |
| <b>Involvement in disease</b>           | Inflammatory bowel disease 10  |
| <b>Sequence similarities</b>            | Belongs to the WD repeat ATG16 family.<br>Contains 7 WD repeats.   |
| <b>Post-translational modifications</b> | Proteolytic cleavage by activated CASP3 leads to degradation and may regulate autophagy upon cellular stress and apoptotic stimuli.  |
| <b>Cellular localization</b>            | 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. |
| <b>Form</b>                             | There are 4 isoforms produced by alternative splicing.   |

## Images



Anti-ATG16L1 antibody (ab223238) at 0.1 µg/ml + Mouse brain lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

**Predicted band size:** 68.1 kDa

**Observed band size:** 65 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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