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## Datasheet for ABIN783665 anti-ATG101 antibody (Center)

2 Images



### Overview

| Quantity:            | 0.1 mg   |
|----------------------|--|
| Target:              | ATG101 (C12orf44)  |
| Binding Specificity: | Center   |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This ATG101 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),<br>Immunofluorescence (IF), Enzyme Immunoassay (EIA) |

## Product Details

| Immunogen:                  | 16 amino acid peptide near the center of Human ATG101                                      |
|-----------------------------|--|
| Specificity:                | This antibody recognizes ATG101 and is predicted to not cross-react with other TG members. |
| Cross-Reactivity (Details): | Species reactivity (tested):Human, Mouse, Rat.   |
| Purification:               | Affinity Chromatography purified via peptide column  |

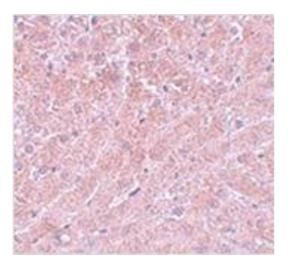
## Target Details

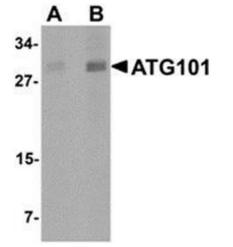
| Target:           | ATG101 (C12orf44)  |
|-------------------|--|
| Alternative Name: | ATG101 (C12orf44 Products)   |
| Background:       | Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic- |

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|                     | lysosomal pathway is important for normal growth control and may be defective in tumor cells.       |
|---------------------|---|
|                     | It is involved in the preservation of cellular nutrients under starvation conditions as well as the |
|                     | normal turnover of cytosolic components. This process is negatively regulated by TOR (Target        |
|                     | of rapamycin) through phosphorylation of autophagy protein ATG1. ATG101 is a recently               |
|                     | discovered protein that stabilizes ATG13, another autophagy protein that forms a complex with       |
|                     | the mammalian homologs of ATG1, ULK1 and ULK2, and with FIP200. This complex is a target            |
|                     | of TOR phosphorylation under normal conditions, inhibition of TOR by rapamycin or leucine           |
|                     | deprivation leads to dephosphorylation of ATG13, ULK1 and ULK2, which then leads to                 |
|                     | autophagy. ATG101 also interacts with ULK1 and is essential for autophagy.Synonyms:                 |
|                     | Autophagy-related protein 101, C12orf44, PP894, UPF0453 protein C12orf44                            |
| Gene ID:            | 60673   |
| NCBI Accession:     | NP_001092143  |
| UniProt:            | Q9BSB4  |
| Pathways:           | Autophagy   |
| Application Details |   |
| Application Notes:  | Optimal working dilution should be determined by the investigator.                                  |
| Restrictions:       | For Research Use only   |
| Handling            |   |
| Concentration:      | 1.0 mg/mL   |
| Buffer:             | Antibody is supplied in PBS containing 0.02 % sodium azide  |
| Preservative:       | Sodium azide  |
| Precaution of Use:  | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which                       |
|                     | should be handled by trained staff only.  |
| Handling Advice:    | Avoid repeated freezing and thawing.  |
| Storage:            | 4 °C/-20 °C   |
| Storage Comment:    | Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.                      |
|                     |   |

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#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry of ATG101 in mouse liver with ATG101 antibody at 5  $\mu$ g/ml.

#### Western Blotting

**Image 2.** Western blot analysis of ATG101 in human liver tissue lysate with ATG101 antibody at (A) 1 and (B)  $2 \mu g/ml$ .

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