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## **Human ATG3 antibody**

Catalog Number: ATGA0493

#### **PRODUCT INFORMATION**

#### Catalog number

ATGA0493

#### Clone No.

AT15F6

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

**Q9NT62** 

#### **NCBI Accession No.**

NP 071933

#### **Alternative Names**

ubiquitin-like-conjugating enzyme ATG3 isoform 1, APG3, APG3-LIKE, APG3L, PC3-96

#### **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human ATG3 (1-314aa) purified from E. coli.

#### Isotype

IgG1 kappa

#### **Purification Note**

By protein-A affinity chromatography

#### **Application**

ELISA, WB, FACS, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

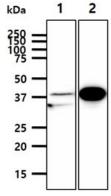
Ubiquitin-like-conjugating enzyme ATG3 isoform 1, also known as ATG3, is an E2-like enzyme that localizes to the cytoplasm and is expressed in a variety of tissues with predominant levels found in kidney, placenta, liver, heart and skeletal muscle. ATG3 catalyzes the formation of the Atg8-phosphatidylethanolamine (ATG-PE) conjugate, a reaction that is essential for autophagy.

#### **General References**

Tanida I., et al. (2002) J Biol Chem. 277: 13739-13744. Yamada Y., et al. (2007) J Biol Chem. 282: 8036-8043.

#### **DATA**

#### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ATG3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: ATG3 transfected 293T cell lysate

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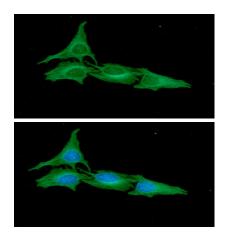
Lane 1.: K562 cell lysate Lane 2.: Raji cell lysate Lane 3.: Jurkat cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



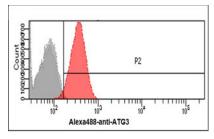
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ICC/IF analysis of ATG3 in HeLa cells. The cell was stained with ATGA0493 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

#### Flow cytometry (FACS)



Flow cytometry analysis of ATG3 in HeLa cells. The cell was stained with ATGA0493 at 2-5ug for 1x106cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

