

Datasheet for ABIN2868966  
**anti-ATG4C antibody (N-Term) (FITC)**[Go to Product page](#)

## 3 Images

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µg  |
| Target:              | ATG4C   |
| Binding Specificity: | N-Term  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This ATG4C antibody is conjugated to FITC                                 |
| Application:         | Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | Synthetic peptide from the N-terminal of human ATG4C                               |
| Specificity:      | Predicted molecular weight at ~52.5 kDa. Observed molecular weights at ~45-60 kDa. |
| Cross-Reactivity: | Human, Mouse, Rat  |
| Purification:     | Peptide Affinity Purified  |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | ATG4C  |
| Alternative Name: | ATG4C ( <a href="#">ATG4C Products</a> )   |
| Background:       | ATG4C belongs to the peptidase C54 family. It is a cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Is not essential for autophagy development under |

## Target Details

normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation (By similarity). Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. It also has an activity of delipidating enzyme for the PE-conjugated forms (1).

Gene ID: 84938

NCBI Accession: [NP\\_116241](#)

UniProt: [Q96DT6](#)

Pathways: [Autophagy](#)

## Application Details

Application Notes:

- WB (1:1000)
- ICC/IF (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: A 1:1000 dilution of ABIN2868966 was sufficient for detection of ATG4C on HeLa cell lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 mg/mL

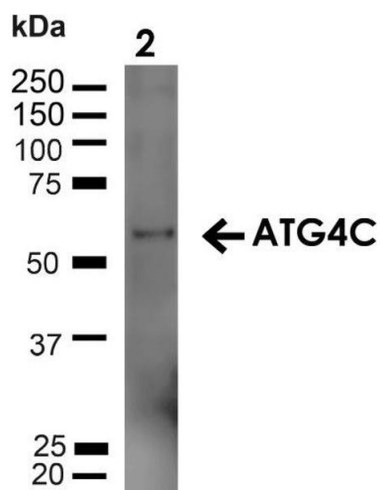
Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

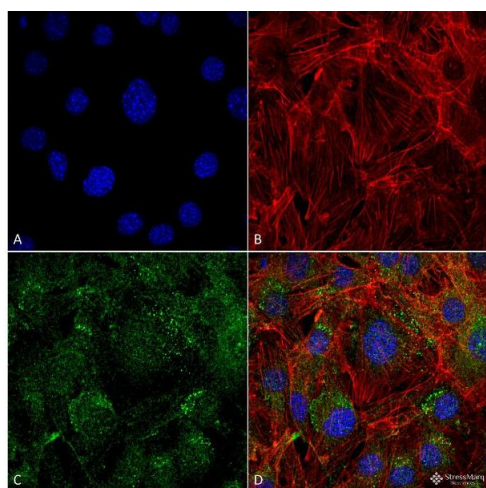
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



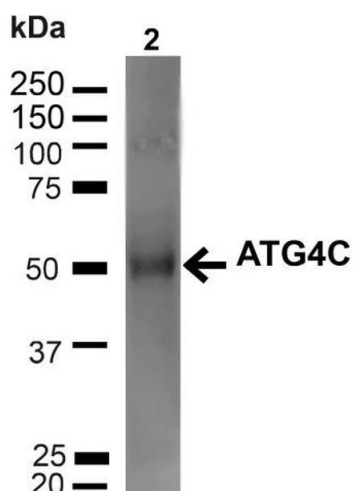
### Western Blotting

**Image 1.** Western blot analysis of Rat Liver showing detection of ~52.5 kDa ATG4C protein using Rabbit Anti-ATG4C Polyclonal Antibody (ABIN2868966). Lane 1: MW Ladder. Lane 2: Rat Liver (20 µg). Load: 20 µg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-ATG4C Polyclonal Antibody (ABIN2868966) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~52.5 kDa.



### Immunofluorescence (fixed cells)

**Image 2.** Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-ATG4C Polyclonal Antibody. Tissue: Myoblast cell line (C2C12). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-ATG4C Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ATG4C Antibody (D) Composite.



### Western Blotting

**Image 3.** Western blot analysis of Human Embryonic kidney epithelial cell line (HEK293T) lysate showing detection of ~52.5 kDa ATG4C protein using Rabbit Anti-ATG4C Polyclonal Antibody (ABIN2868966). Lane 1: MW Ladder. Lane 2: Human 293T (20 µg). Load: 20 µg. Block: 5 % milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-ATG4C Polyclonal Antibody (ABIN2868966) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~52.5 kDa.