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888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-ATG4C Antibody Picoband™

**Catalog Number:** A09728-2

## About ATG4C

Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding the same protein, have been characterized.

## Overview

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| Product Name | Anti-ATG4C Antibody Picoband™ |
| Reactive Species | Human |
| Description | Boster Bio Anti-ATG4C Antibody Picoband™ catalog # A09728-2. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. |
| Application | ELISA, Flow Cytometry, IF, ICC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage Instructions | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |
| Host | Rabbit |
| Uniprot ID | Q96DT6 |

## Technical Details

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| Immunogen | E.coli-derived human ATG4C recombinant protein (Position: M1-L457). |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| Purification | Immunogen affinity purified. |

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| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>Western blot, 0.25-0.5 µg/ml, Human<br>Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human<br>Flow Cytometry, 1-3 µg/1x$10^6$ cells, Human<br>Direct ELISA, 0.1-0.5 µg/ml, Human |

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# Anti-ATG4C Antibody Picoband™ (A09728-2) Images

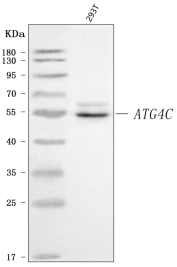


Figure 1. Western blot analysis of ATG4C using anti-ATG4C antibody (A09728-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human 293T whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATG4C antigen affinity purified polyclonal antibody (Catalog # A09728-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ATG4C at approximately 52 kDa. The expected band size for ATG4C is at 52 kDa.

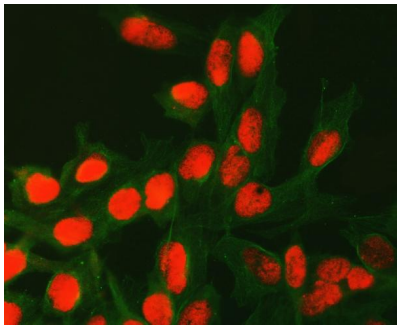

Figure 2. IF analysis of ATG4C using anti-ATG4C antibody (A09728-2) and anti-Tubulin Alpha antibody (M03989-3). ATG4C was detected in immunocytochemical section of U20S cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ATG4C Antibody (A09728-2) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

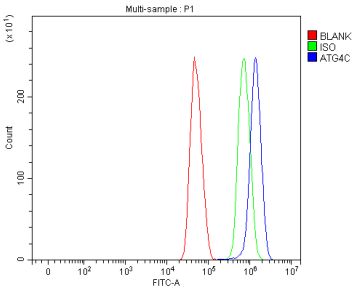


Figure 3. Flow Cytometry analysis of U251 cells using anti-ATG4C antibody (A09728-2).
Overlay histogram showing U251 cells stained with A09728-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATG4C Antibody (A09728-2, 1 ug/1x10$^6$ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10$^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10$^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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