

## Anti-Atg4A Monoclonal Antibody

Catalog Number: M06539

### About ATG4A

Putative transcription factor involved in pancreas development and function.

### Overview

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Atg4A Monoclonal Antibody                                                                                                               |
| Reactive Species     | Human, Mouse, Rat                                                                                                                            |
| Description          | Boster Bio Anti-Atg4A Monoclonal Antibody catalog # M06539. Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat. |
| Application          | IP, IHC, WB                                                                                                                                  |
| Clonality            | Monoclonal ACHB-1                                                                                                                            |
| Formulation          | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                          |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.   |
| Host                 | Rabbit                                                                                                                                       |
| Uniprot ID           | Q8WYN0                                                                                                                                       |

### Technical Details

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthesized peptide derived from human Atg4A The cysteine protease Atg4 is pivotal to autophagosome membrane generation and regulation. Atg4 primes the Atg8 homologue for lipidation by cleaving its carboxy terminus and exposing its glycine residue for E1-like enzyme Atg7. The Atg8 homologue is transferred to the E2-like enzyme Atg3 before forming the Atg8-PE conjugate. During later stages of autophagy, Atg4 can reverse this lipidation event by cleaving PE, thereby recycling the Atg8 homologue. |
| Isotype             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration       | Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purification        | Affinity-chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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.                                                                                                                                                                                                                                                            |

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB 1:500-1:2000

IHC 1:50-1:200

IP 1:50

## Anti-Atg4A Monoclonal Antibody (M06539) Images

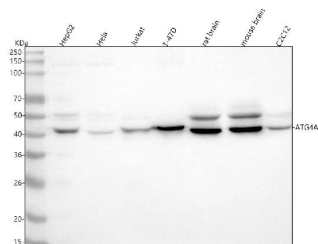


Figure 1. Western blot analysis of Atg4A using anti-Atg4A antibody (M06539).

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 HepG2 whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human Jurkat whole cell lysates,

Lane 4: human T-47D whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: mouse brain tissue lysates,

Lane 7: mouse C2C12 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-

Atg4A antigen affinity purified monoclonal antibody (Catalog # M06539) at 1:500 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 Atg4A at approximately 45 kDa. The expected band size for Atg4A is at 45 kDa.

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