BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-Atg4A Monoclonal Antibody

**Catalog Number:** M06539

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## Overview

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| 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 stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.<br>*This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| 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

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| 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 |

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|---|---|
| Concentration | 0.5mg/ml |
| Purification | Affinity-chromatography |
| Suggested Dilutions | WB, 1:500-2000<br>IHC, 1:50-200<br>IP, 1:20 |

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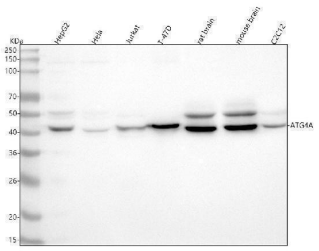
# Anti-Atg4A Monoclonal Antibody (M06539) Images




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.

Anti-Atg4A Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.