BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Atg7 (Apg7) Monoclonal Antibody

Catalog Number: M00346-1

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Overview

Product Name	Anti-Atg7 (Apg7) Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Atg7 (Apg7) Monoclonal Antibody catalog # M00346-1. Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, ICC, WB
Clonality	Monoclonal ACHA-1
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. 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	O95352

Technical Details

Immunogen	A synthesized peptide derived from human Atg7 (Apg7) Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles. This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml

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Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000 ICC/IF, 1:50-200

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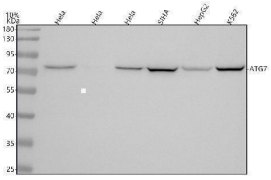
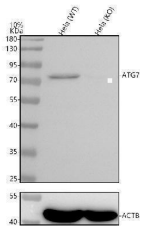
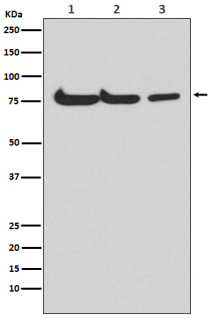
Anti-Atg7 (Apg7) Monoclonal Antibody (M00346-1) Images



Western blot analysis of Atg7 using anti-Atg7 antibody (M00346-1). 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 Hela whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human SIHA whole cell lysates, Lane 5: human HepG2 whole cell lysates, Lane 6: human K562 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-Atg7 antigen affinity purified monoclonal antibody (M00346-1) at 1:1000 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 1:500 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 Atg7 at approximately 78 kDa. The expected band size for Atg7 is at 78 kDa.



Western blot analysis of Atg7 using anti-Atg7 antibody (M00346-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela-WT whole cell lysates, Lane 2: human Hela-GPX4 KO 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. Then the membrane was incubated with rabbit anti-Atg7 antigen affinity purified monoclonal antibody (M00346-1) 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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Atg7 at approximately 78 kDa. The expected band size for Atg7 is at 78 kDa.



Western blot analysis of Atg7(Apg7) expression in (1) HepG2 cell lysate; (2) Mouse spleen lysate; (3) Rat kidney lysate.

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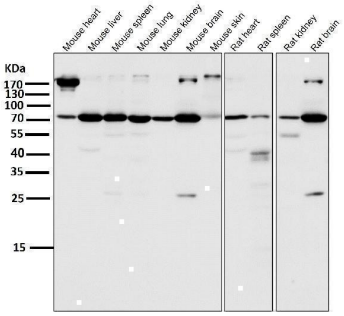
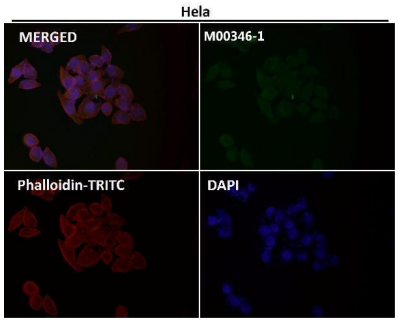


All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

1 Publications Citing This Product

1. PubMed ID: 27383629, Nrf2 signalling andautophagyare involved in diabetes mellitus-induced defects in the development of mouse placenta

Visit bosterbio.com/anti-atg7-apg7-antibody-m00346-1-boster.html to see all 1 publications.

Anti-Atg7 (Apg7) Monoclonal Antibody

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