

Anti-Apg3/ATG3 Antibody Picoband™

Catalog Number: A01768-1

About ATG3

This ATG3 gene encodes a ubiquitin-like-conjugating enzyme and is a component of ubiquitination-like systems involved in autophagy, the process of degradation, turnover and recycling of cytoplasmic constituents in eukaryotic cells. And the protein is known to play a role in regulation of autophagy during cell death. A pseudogene of this gene is located on chromosome 20. Alternative splicing results in multiple transcript variants encoding different isoforms.

Overview

Product Name	Anti-Apg3/ATG3 Antibody Picoband™
Reactive Species	Human, Monkey, Mouse
Description	Boster Bio Anti-Apg3/ATG3 Antibody Picoband™ catalog # A01768-1. Tested in WB applications. This antibody reacts with Human, Monkey, Mouse.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NT62

Technical Details

Immunogen	E.coli-derived human Apg3 recombinant protein (Position: M1-T244). Human Apg3 shares 96.7% and 96.3% amino acid (aa) sequence identity with mouse and rat Apg3, respectively.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. 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: Western blot, 0.1-0.5ug/ml, Human, Monkey, Mouse

Anti-Apg3/ATG3 Antibody Picoband™ (A01768-1) Images

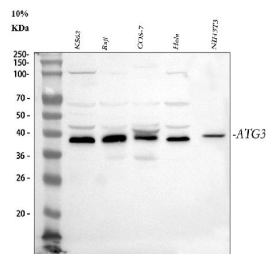


Figure 1. Western blot analysis of Apg3 using anti-Apg3 antibody (A01768-1).

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 K562 whole cell lysates,
Lane 2: human Raji whole cell lysates,
Lane 3: monkey COS-7 whole cell lysates,
Lane 4: human Hela whole cell lysates,
Lane 5: mouse NIH/3T3 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-Apg3 antigen affinity purified polyclonal antibody (Catalog # A01768-1) at 0.25 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 Apg3 at approximately 36-40 kDa. The expected band size for Apg3 is at 36 kDa.

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