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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ATG3 Antibody

Catalog Number: A01768

About ATG3

Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1. ATG3 (APG3) is a widely expressed conjugating enzyme for APG8 lipidation, an essential step for the initiation of autophagy. It functions as an E2-like enzyme during the initial stages of autophagosome formation by catalyzing the formation of the Atg8-phosphatidylethanolamine (Atg8-PE) conjugate, which is critical for autophagy.

Overview

Product Name	Anti-ATG3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ATG3 Antibody (Catalog # A01768). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	ATG3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ATG3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9NT62

Technical Details

Immunogen	ATG3 antibody was raised against an 18 amino acid synthetic peptide near the center of human ATG3. The immunogen is located within amino acids 180 - 230 of ATG3.
Predicted Reactive Species	Bovine
Cross Reactivity	PROM1 antibody is human, mouse and rat reactive. Multiple isoforms of PROM1 are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

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Purification	ATG3 Antibody is affinity chromatography purified via peptide column.
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: ATG3 antibody can be used for detection of ATG3 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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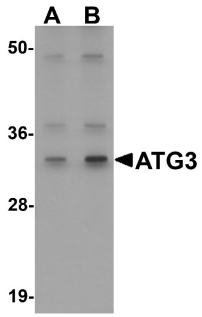
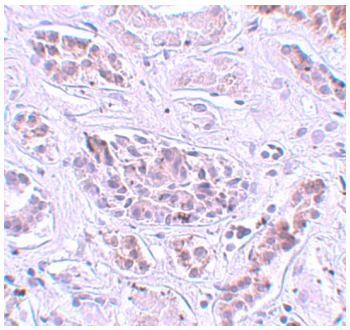
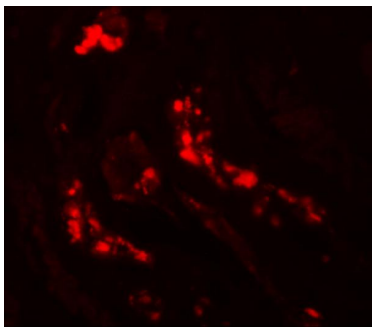
Anti-ATG3 Antibody (A01768) Images



Western blot analysis of ATG3 in Mouse kidney tissue Lysate with ATG3 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of ATG3 in human kidney tissue with ATG3 antibody at 5 ug/mL.



Immunofluorescence of ATG3 in human kidney with ATG3 antibody at 20 ug/mL.

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