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

Anti-ATG14 Antibody

Catalog Number: A03546

About ATG14

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 ATG1. ATG14 is a subunit of a class III phosphatidylinositol (PtdIns) 3-kinase complex that targets the complex to the endoplasmic reticulum, the site of autophagosome formation.

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Overview

Product Name	Anti-ATG14 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ATG14 Antibody (Catalog # A03546). Tested in ELISA, WB, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, WB
Clonality	Polyclonal
Formulation	ATG14 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	ATG14 antibody can be stored at 4°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	Q6ZNE5

Technical Details

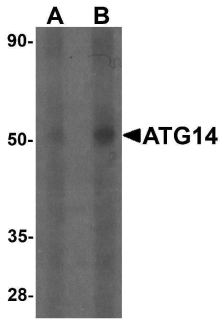
Immunogen	ATG14 antibody was raised against an 18 amino acid synthetic peptide near the center of human ATG14. The immunogen is located within amino acids 270 - 320 of ATG14.
Predicted Reactive Species	Bovine, Mouse, Rat
Cross Reactivity	At least three isoforms of ATG14 are known to exist; this antibody will detect all three isoforms

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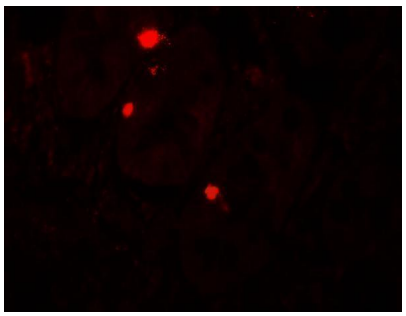
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ATG14 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	ATG14 antibody can be used for detection of ATG14 by Western blot at 1 - 2 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot 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-ATG14 Antibody (A03546) Images



Western blot analysis of ATG14 in human small intestine tissue lysate with ATG14 antibody at (A) 1 and (B) 2 ug/mL.



Immunofluorescence of ATG14 in human small intestine tissue with ATG14 antibody at 20 ug/mL.

Anti-ATG14 Antibody

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