

Anti-Autophagy-related protein 101 ATG101 Antibody

Catalog Number: A07713

About C12ORF44

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. ATG101 is a recently discovered protein that stabilizes ATG13, another autophagy protein that forms a complex with the mammalian homologs of ATG1, ULK1 and ULK2, and with FIP200. This complex is a target of TOR phosphorylation under normal conditions; inhibition of TOR by rapamycin or leucine deprivation leads to dephosphorylation of ATG13, ULK1 and ULK2, which then leads to autophagy. ATG101 also interacts with ULK1 and is essential for autophagy.

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Overview

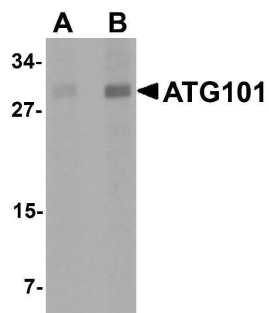
Product Name	Anti-Autophagy-related protein 101 ATG101 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Autophagy-related protein 101 ATG101 Antibody (Catalog # A07713). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	ATG101 Antibody is supplied in PBS containing $\leq 0.09\%$ sodium azide.
Storage Instructions	ATG101 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	Q9BSB4

Technical Details

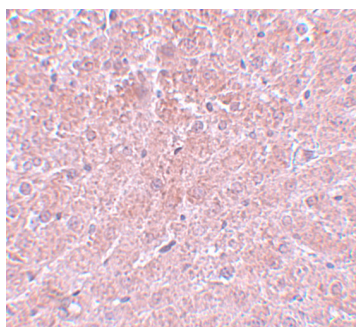
Immunogen	ATG101 antibody was raised against a 16 amino acid synthetic peptide near the center of human ATG101. The immunogen is located within amino acids 80 - 130 of ATG101.
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Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ATG101 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	ATG101 antibody can be used for detection of ATG101 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 human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

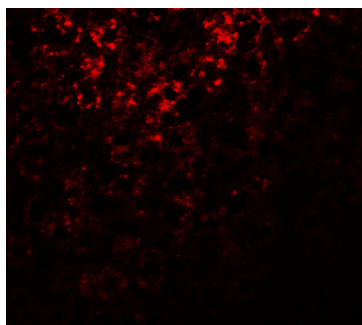
Anti-Autophagy-related protein 101 ATG101 Antibody (A07713) Images



Western blot analysis of ATG101 in human liver tissue lysate with ATG101 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of ATG101 in mouse liver with ATG101 antibody at 5 ug/mL.



Immunofluorescence of ATG101 in mouse liver tissue with ATG101 antibody at 20 ug/mL.

Anti-Autophagy-related protein 101 ATG101 Antibody

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