

Product datasheet for **TA319995**

ATG101 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ATG101 antibody was raised against a 16 amino acid synthetic peptide near the center of human ATG101.
Formulation:	ATG101 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ATG101 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	autophagy related 101
Database Link:	NP_001092143 Entrez Gene 68118 Mouse Entrez Gene 300240 Rat Entrez Gene 60673 Human Q9BSB4



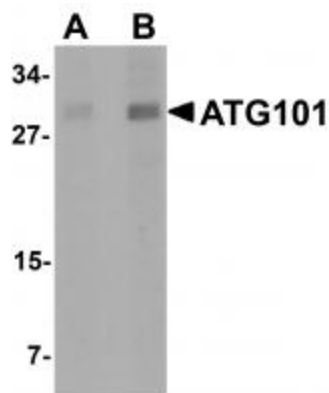
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Background:

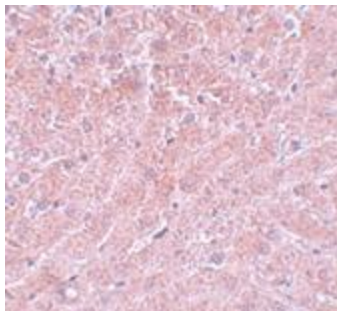
ATG101 Antibody: Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the 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.

Synonyms:

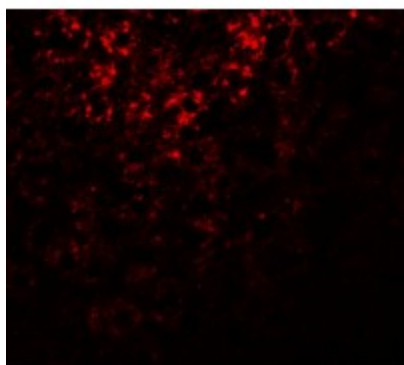
C12orf44

Product 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.