ATG101 Antibody

Catalog No: #25133

Orders: order@signalwayantibody.com
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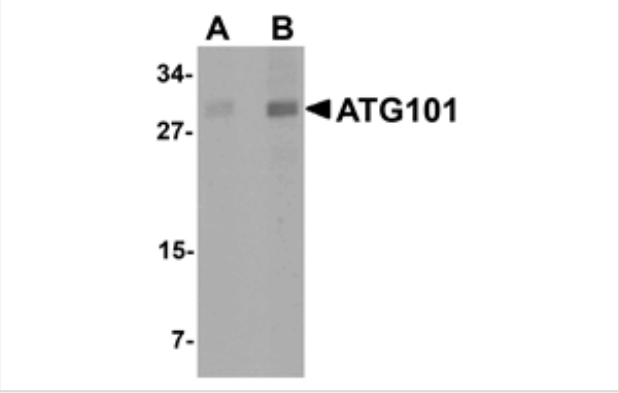
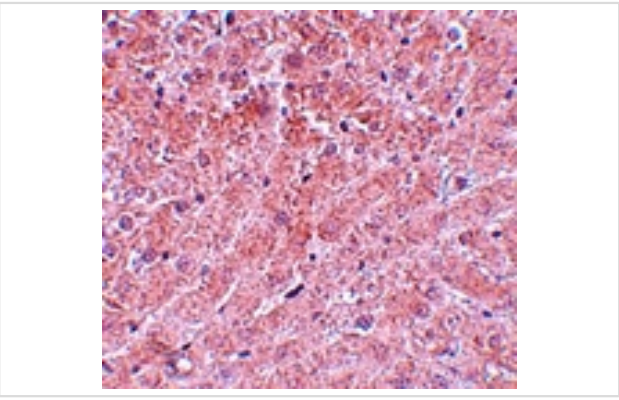
Description

Product Name	ATG101 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide near the center of human ATG101.
Target Name	ATG101
Other Names	Autophagy-related protein 101, ATG13-interacting protein
Accession No.	Swiss-Prot:Q9BSB4Gene ID:60673
Uniprot	Q9BSB4
GeneID	60673;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

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.

Background

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.

Note: This product is for in vitro research use only