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Datasheet for ABIN783665 anti-ATG101 antibody (Center)

2 Images



Overview

Quantity:	0.1 mg
Target:	ATG101 (C12orf44)
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG101 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	16 amino acid peptide near the center of Human ATG101
Specificity:	This antibody recognizes ATG101 and is predicted to not cross-react with other TG members.
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse, Rat.
Purification:	Affinity Chromatography purified via peptide column

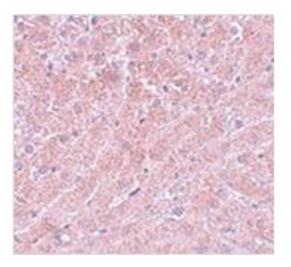
Target Details

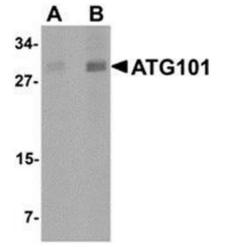
Target:	ATG101 (C12orf44)
Alternative Name:	ATG101 (C12orf44 Products)
Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-

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	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:
	Autophagy-related protein 101, C12orf44, PP894, UPF0453 protein C12orf44
Gene ID:	60673
NCBI Accession:	NP_001092143
UniProt:	Q9BSB4
Pathways:	Autophagy
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Concentration:	1.0 mg/mL
Buffer:	Antibody is supplied in PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of ATG101 in mouse liver with ATG101 antibody at 5 μ g/ml.

Western Blotting

Image 2. Western blot analysis of ATG101 in human liver tissue lysate with ATG101 antibody at (A) 1 and (B) $2 \mu g/ml$.

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