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Datasheet for ABIN6991757
anti-ATG14 antibody (AA 270-320)

Overview

Quantity:	0.1 mg
Target:	ATG14
Binding Specificity:	AA 270-320
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG14 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product 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.
Isotype:	IgG
Specificity:	At least three isoforms of ATG14 are known to exist, this antibody will detect all three isoforms
Purification:	ATG14 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ATG14
Alternative Name:	ATG14 (ATG14 Products)
Background:	ATG14 Antibody: Autophagy, the process of bulk degradation of cellular proteins through an

Target Details

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.

Molecular Weight: 54 kDa

Gene ID: 22863

NCBI Accession: [NP_055739](#)

UniProt: [Q6ZNE5](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: ATG14 antibody can be used for detection of ATG14 by Western blot at 1 - 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Antibody validated: Western Blot in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: ATG14 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.

Storage: -20 °C, 4 °C

Storage Comment: ATG14 antibody can be stored at 4°C for three months and -20°C, stable for up to 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.