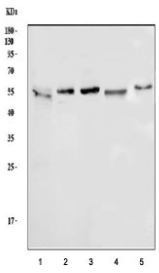
ATG5 Antibody (R31384)

Catalog No.	Formulation	Size
R31384	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9H1Y0
Applications	Western blot: 0.5-1ug/ml
Limitations	This ATG5 antibody is available for research use only.



Western blot testing of 1) human PANC-1, 2) human HT1080, 3) human U-251, 4) rat C6 and 5) mouse testis tissue lysate with ATG5 antibody. Predicted molecular weight ATG5: ~32 kDa; ATG5/ATG12 heterodimer: ~56 kDa.

Description

Autophagy protein 5 is a protein that in humans is encoded by the ATG5 gene. It is also known as APG5 or ASP, and this gene is mapped to 6q21. It is found that knockdown of the protein in hepatocytes increased triglyceride levels with oleate or a second endogenous stimulus for triglyceride formation. These knockdown hepatocytes also had increased lipid droplet number and size. ATG5 is an E3 ubiquitin ligase which is necessary for autophagy due to its role in autophagosome elongation. It is activated by ATG7 and forms a complex with ATG12 and ATG16L1. This complex is necessary for LC3-1 conjugation to PE to form LC3-II.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ATG5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 82-97 (DRFDQFWAINRKLMEY-human) were used as the immunogen for this ATG5 antibody (100% mouse homology).

Storage

After reconstitution, the ATG5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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