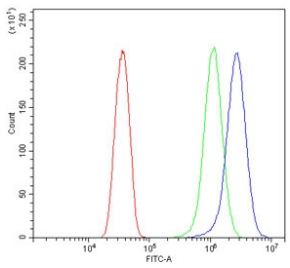
ATG7 Antibody / APG7 (R31385)

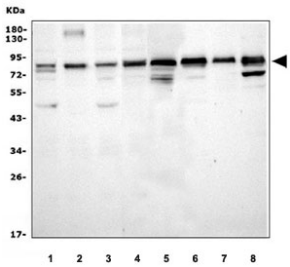
Catalog No.	Formulation	Size
R31385	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	O95352
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This ATG7 antibody is available for research use only.



Flow cytometry testing of human HeLa cells with ATG7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ATG7 antibody.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) human K562, 4) human Jurkat, 5) rat kidney, 6) mouse kidney, 7) mouse spleen and 8) mouse SP2/0 cell lysate with ATG7 antibody. Predicted molecular weight: 70-80 kDa.

Description

Autophagy-related protein 7 is a protein that in humans is encoded by the ATG7 gene. This gene was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein also shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes. ATG7 is essential for the Apg12 conjugation system that mediates membrane fusion in autophagy. It is found that when nutrients are limited, the protein can regulate p53-dependent cell cycle and cell death pathways.

To learn more about this target, explore our ATG7 Antibody / Autophagy Related E1 Enzyme Antibody page featuring additional information and antibodies for detecting ATG7.

Application Notes

Titration of the ATG7 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 652-669 (KVLDQYEREGFNFLAKVF-human) were used as the immunogen for this ATG7 antibody.

Storage

After reconstitution, the ATG7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.