

Basic Information

Product Name	Anti-ATG7 Antibody
Gene Name	ATG7
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Apg7 different from the related mouse and rat sequences by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	78 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Autophagy-related protein 7 is a protein that in humans is encoded by the ATG7 gene. It is mapped to 3p25.3. 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, ATG7 can regulate p53-dependent cell cycle and cell death pathways.

Reference

Anti-ATG7 Antibody被引用在6文献中。

Selected Validation Data



Western blot analysis of ATG7 using anti-ATG7 antibody (PB0495).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat Brain tissue lysates,

Lane 2: Mouse Brain tissue lysates,

Lane 3: 293T whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-ATG7 antigen affinity purified polyclonal antibody (PB0495) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ATG7 at approximately 78 kDa. The expected band size for ATG7 is at 78 kDa.