

## Anti-Apg7/ATG7 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9479-Fluoro488

### About ATG7

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.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Apg7/ATG7 Antibody Picoband® Fluoro488 Conjugated   |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Flow Cytometry   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.         |
| Host                 | Rabbit   |
| Uniprot ID           | O95352   |

### Technical Details

|                     |   |
|---------------------|---|
| 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. |
| Cross Reactivity    | No cross-reactivity with other proteins   |
| Isotype             | Rabbit IgG  |
| Form                | Liquid  |
| Concentration       | 0.5 mg/mL   |
| Purification        | Immunogen affinity purified.  |
| Conjugate           | Fluoro488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm   |
| Suggested Dilutions | Flow Cytometry, Optimal dilutions should be determined by end users.  |

### 3 Publications Citing This Product

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1. PubMed ID: 29113167, Yang J, Sheng S, Yang Q, Li L, Qin S, Yu S, Zhang X. Oncol Lett. 2017 Nov;14(5):5333-5339. doi: 10.3892/ol.2017.6857. Epub 2017 Aug 31. Endocan silencing induces programmed cell death in hepatocarcinoma
2. PubMed ID: 29552291, Erbin exerts a protective effect against inflammatory bowel disease by suppressing autophagic cell death
3. PubMed ID: 27383629, Nrf2 signalling and autophagy are involved in diabetes mellitus-induced defects in the development of mouse placenta

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