

APG7/ATG7 Antibody

CATALOG #:	3907-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide near the N-terminus of rat APG7 (Internal ID# BV-B27).
SPECIES REACTIVITY:	human, mouse, rat, yeast

FORMULATION:

0.5 mg/ml affinity purified rabbit anti-APG7/ATG7 in PBS containing 30% glycerol, 0.5 mg/ml BSA and 0.01% thimerosal.

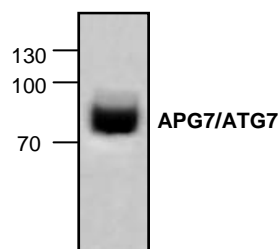
STORAGE CONDITIONS: Store at -20°C. For long term storage, store at -70°C.

DESCRIPTION:

Autophagy, the process of bulk degradation of cellular proteins through an autophagosomal-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 APG1. Another member of the autophagy family of proteins is APG7 which was identified in yeast as a ubiquitin-E1-like enzyme; this function is conserved in the mammalian homolog (4). In mammalian cells, APG7 is essential for autophagy conjugation systems, autophagosome formation, starvation-induced bulk degradation of proteins and organelles. It has been suggested that caspase-8 may alter APG7 levels and thus the APG7 program of autophagic cell death.

APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Other applications have not been determined. Blocking peptide (Cat.# 3907BP-50) is available separately.



Cat. #:3907-100
Western blot analysis
of APG7 in Jurkat cell
lysate

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