

Product datasheet for **TA306257**

ATG7 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 10 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	APG7 antibody was raised against a 17 amino acid peptide from near the carboxy terminus of human APG7.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	autophagy related 7
Database Link:	NP_006386 Entrez Gene 10533 Human O95352



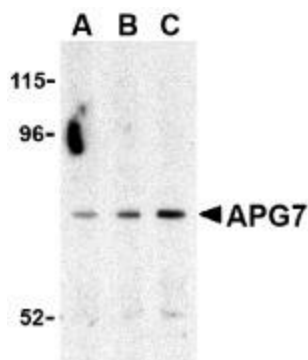
[View online »](#)

Background:

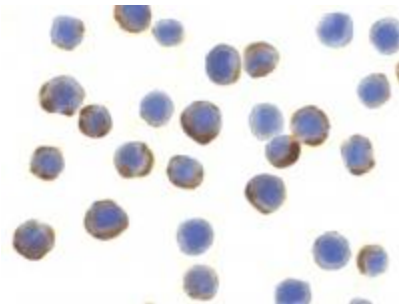
Autophagy, the process of bulk degradation of cellular proteins through an autophagosomal-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components (1,2). This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1 (3). 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 (5). It has been suggested that caspase-8 may alter APG7 levels and thus the APG7 program of autophagic cell death (6).

Synonyms:

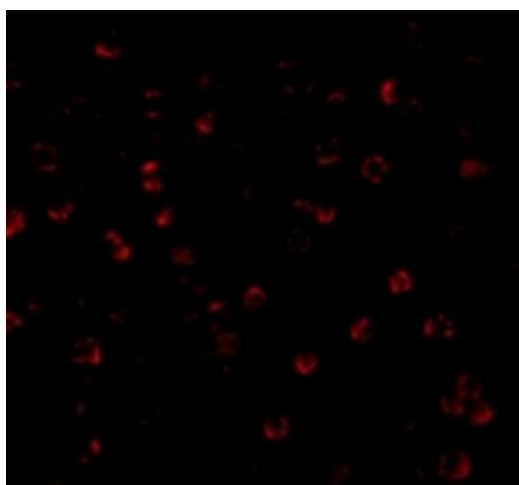
APG7-LIKE; APG7L; GSA7

Product images:

Western blot analysis of APG7 in Caco-2 cell lysate with APG7 antibody at (A) 0.5, (B) 1 and (C) 2 µg/mL.



Immunocytochemistry of APG7 in MCF7 cells with APG7 antibody at 10 µg/mL.



Immunofluorescence of APG7 in MCF7 cells with APG7 antibody at 20 ug/mL.