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Anti-APG7 ATG7 Antibody

Catalog Number: A00346-1

About ATG7

Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-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. 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.

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Overview

Product Name	Anti-APG7 ATG7 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-APG7 ATG7 Antibody (Catalog # A00346-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	APG7 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	APG7 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O95352

Technical Details

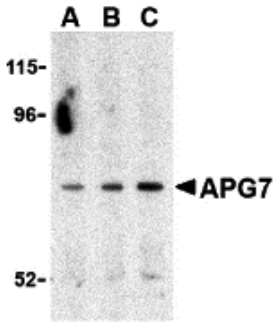
Immunogen	APG7 antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human APG7. The immunogen is located within amino acids 590 - 640 of APG7.

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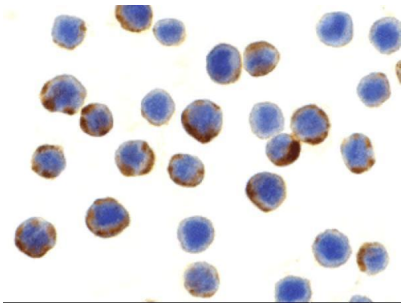
Predicted Reactive Species	Chicken, Rat
Cross Reactivity	At least three isoforms of APG7 are known to exist; this antibody will detect all three isoforms. APG7 antibody is predicted not to cross-react with other ATG family proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	APG7 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	APG7 antibody can be used for the detection of APG7 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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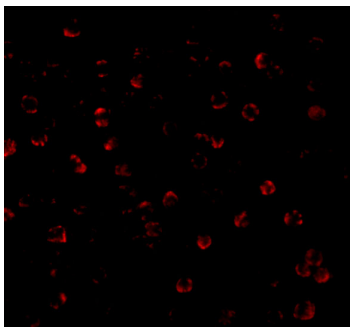
Anti-APG7 ATG7 Antibody (A00346-1) Images



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



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



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

Anti-APG7 ATG7 Antibody

For Research Use Only. Not for use in diagnostic procedures.