APG7 Antibody

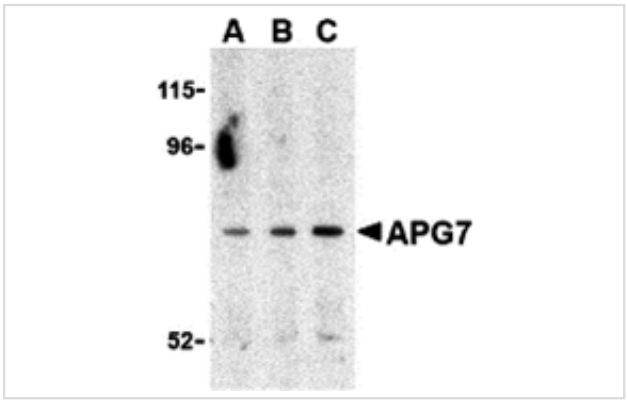
Catalog No: #24353

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

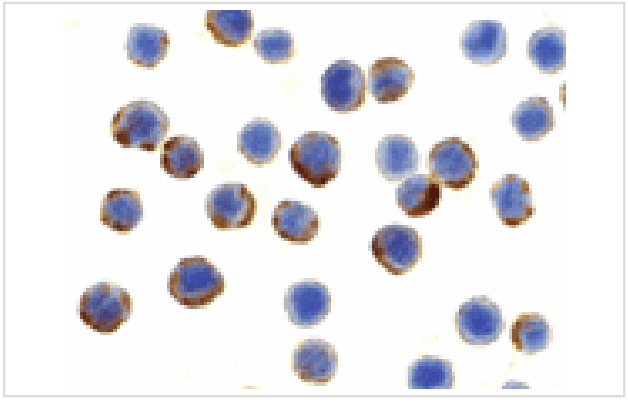
Description

Product Name	APG7 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB ICC
Species Reactivity	Hu Ms
Immunogen Type	Peptide
Immunogen Description	Raised against a 17 amino acid peptide from near the carboxy terminus of human APG7.
Target Name	APG7
Other Names	Autophagy protein 7, ATG7
Accession No.	Swiss-Prot:O95352Gene ID:10533
Uniprot	O95352
GeneID	10533;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

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.

Background

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.

Note: This product is for in vitro research use only