

ATG3 Antibody

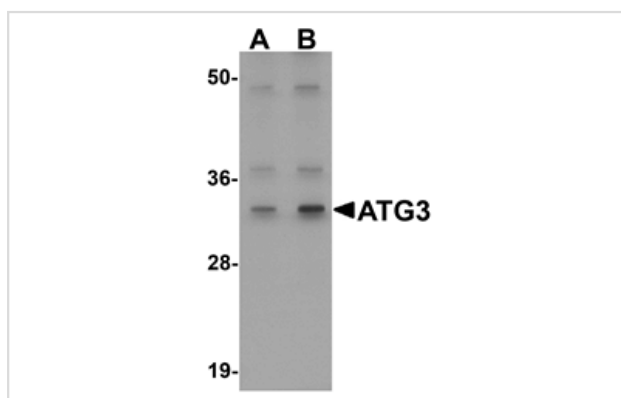
Catalog No: #25130

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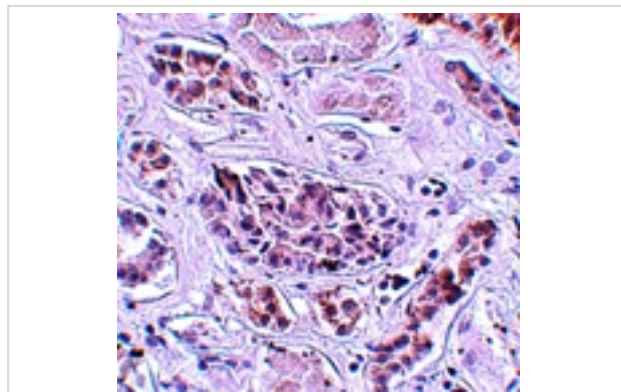
Description

Product Name	ATG3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against an 18 amino acid peptide near the center of human ATG3.
Target Name	ATG3
Other Names	Autophagy related protein 3, APG3, APG3-like, PC3-96
Accession No.	Swiss-Prot:Q9NT62Gene ID:64422
Uniprot	Q9NT62
GeneID	64422;
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 ATG3 in Mouse kidney tissue Lysate with ATG3 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of ATG3 in human kidney tissue with ATG3 antibody at 5 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. ATG3 (APG3) is a widely expressed conjugating enzyme for APG8 lipidation, an essential step for the initiation of autophagy. It functions as an E2-like enzyme during the initial stages of autophagosome formation by catalyzing the formation of the Atg8-phosphatidylethanolamine (Atg8-PE) conjugate, which is critical for autophagy.

Note: This product is for in vitro research use only