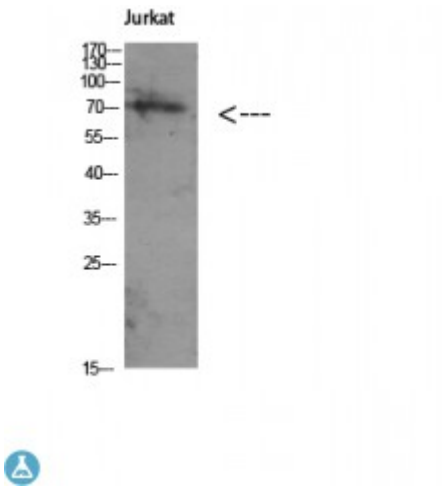
Anti-Atg16 antibody



Description	Rabbit polyclonal to Atg16.

Model	STJ91756
Host	Rabbit
Reactivity	Human
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human Atg16
Immunogen Region	60-140 aa, Internal
Gene ID	55054
Gene Symbol	ATG16L1
Dilution range	WB 1:500-1:2000ELISA 1:5000
Specificity	Atg16 Polyclonal Antibody detects endogenous levels of Atg16 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Autophagy-related protein 16-1 APG16-like 1
Molecular Weight	70 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:21498OMIM:610767
Alternative Names	Autophagy-related protein 16-1 APG16-like 1
Function	Plays an essential role in autophagy: interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C), to produce a membrane-bound activated form of LC3 named LC3-II. Thereby, controls the elongation of the nascent autophagosomal membrane . Regulates mitochondrial antiviral signaling (MAVS)-dependent type I interferon (IFN-I) production . Negatively regulates NOD1- and NOD2-driven inflammatory cytokine response . Plays a role in regulating morphology and function of Paneth cell .
Cellular Localization	Cytoplasm Preautophagosomal structure membrane. Recruited to omegasomes membranes by WIPI2. Omegasomes are endoplasmic reticulum connected strutures at the origin of preautophagosomal structures. Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5. Localizes also to discrete punctae along the ciliary axoneme.
Post-translational Modifications	Proteolytic cleavage by activated CASP3 leads to degradation and may regulate autophagy upon cellular stress and apoptotic stimuli. Phosphorylation at Ser-139 promotes association with the ATG12-ATG5 conjugate to form the ATG12-ATG5-ATG16L1 complex.