

# Phospho-ATG16L1 (Ser278) (YD20461) Rabbit mAb

货号: AYD13896

## 产品信息

反应	Mouse
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB
推荐浓度	
理论分子量	68kDa
实测分子量	
形式	Liquid
保存条件	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Cytoplasm, Preautophagosomal structure membrane, Endosome membrane, Lysosome membrane
纯化	

## 抗原信息

抗原信息	
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## 靶点信息

研究背景	Plays an essential role in both canonical and non-canonical autophagy: interacts with ATG12-ATG5 to mediate the lipidation to ATG8 family proteins (MAP1LC3A, MAP1LC3B, MAP1LC3C, GABARAPL1, GABARAPL2 and GABARAP) (PubMed:12665549, PubMed:18849966, PubMed:19898471, PubMed:23392225, PubMed:24553140, PubMed:24954904, PubMed:33586810). Acts as a molecular hub, coordinating autophagy pathways via distinct domains that support either canonical or non-canonical signaling (PubMed:33586810). During canonical autophagy, interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to ATG8 proteins, to produce a membrane-bound activated form of ATG8 (By similarity). The reby, controls the elongation of the nascent autophagosomal membrane (By similarity). As part of the ATG8 conjugation system with ATG5 and ATG12, required for recruitment of LRRK2 to stressed lysosomes and induction of LRRK2 kinase activity in response to lysosomal stress (PubMed:38227290). Also involved in non-canonical autophagy, a parallel pathway involving conjugation of ATG8 proteins to single membranes at endolysosomal compartments, probably by catalyzing conjugation of phosphatidylserine (PS) to ATG8 (By similarity). Non-canonical autophagy plays a key role in epithelial cells to limit lethal infection by influenza A (IAV) virus (PubMed:33586810). Regulates mitochondrial antiviral signaling (MAVS)-dependent type I interferon (IFN-I) production (By similarity). Negatively regulates NOD1- and NOD2-driven inflammatory cytokine response (PubMed:24238340). Instead, promotes an autophagy-dependent antibacterial pathway together with NOD1 or NOD2 (PubMed:19898471, PubMed:19966812, PubMed:24238340). Plays a role in regulating morphology and function of Paneth cell (By similarity)
基因ID	3134
基因名	Atg16l1
Swiss	Q8C0J2
别名	Phospho-ATG16L1 (Ser278) (YD20461)

#### 产品验证

#### 实验步骤

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