

产品名称: Atg7(Apg7) (18N11) Rabbit Monoclonal Antibody
产品货号: AMRe07300



产品概述 (Summary)

产品名称 (Production Name)	Atg7(Apg7) (18N11) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ATG7
别名 (Alternative Names)	hAGP7; Ubiquitin-activating enzyme E1-like protein; APG7L;
基因 ID (Gene ID)	10533.0
蛋白 ID (SwissProt ID)	O95352.A synthetic peptide of human Apg7

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:2000-1:10000, ICC/IF 1:20-1:100
蛋白分子量 (Molecular Weight)	78kDa

研究背景 (Background)

Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5

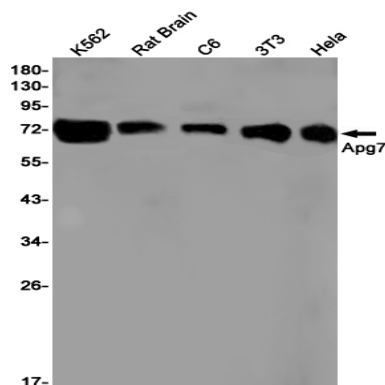
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and targeted to autophagosome vesicles. This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10. E1-like activating enzyme involved in the 2 ubiquitin-like systems required for cytoplasm to vacuole transport (Cvt) and autophagy. Activates ATG12 for its conjugation with ATG5 as well as the ATG8 family proteins for their conjugation with phosphatidylethanolamine. Both systems are needed for the ATG8 association to Cvt vesicles and autophagosomes membranes. Required for autophagic death induced by caspase-8 inhibition. Required for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Modulates p53/TP53 activity to regulate cell cycle and survival during metabolic stress. Plays also a key role in the maintenance of axonal homeostasis, the prevention of axonal degeneration, the maintenance of hematopoietic stem cells, the formation of Paneth cell granules, as well as in adipose differentiation. Plays a role in regulating the liver clock and glucose metabolism by mediating the autophagic degradation of CRY1 (clock repressor) in a time-dependent manner (By similarity).

研究领域 (Research Area)

Cell Biology

图片 (Image Data)



Western blot detection of Apg7 in K562, Rat Brain, C6, 3T3, HeLa cell lysates using Apg7 antibody (1:1000 diluted).

注意事项 (Note)

For research use only .