

产品名称: Phospho-ULK1 (S556) (5G1) Rabbit Monoclonal Antibody
产品货号: AMRe06045

产品概述 (Summary)

产品名称 (Production Name)	Phospho-ULK1 (S556) (5G1) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB
种属反应性 (Reactivity)	Human, Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Phosphorylated
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)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ULK1
别名 (Alternative Names)	ATG1; ATG1A; hATG1; ULK1; UNC51;
基因 ID (Gene ID)	8408.0
蛋白 ID (SwissProt ID)	O75385.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:2000-1:20000
蛋白分子量 (Molecular Weight)	113kDa

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研究背景 (Background)

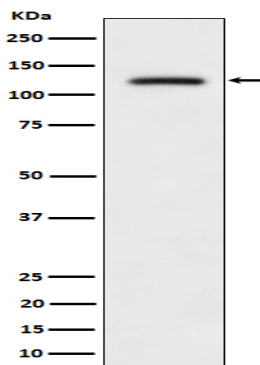
Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Serine/threonine-protein kinase involved in autophagy in response to starvation (PubMed: [18936157](http://www.uniprot.org/citations/18936157)), PubMed: [21460634](http://www.uniprot.org/citations/21460634)), PubMed: [21795849](http://www.uniprot.org/citations/21795849)), PubMed: [23524951](http://www.uniprot.org/citations/23524951)), PubMed: [25040165](http://www.uniprot.org/citations/25040165)), PubMed: [31123703](http://www.uniprot.org/citations/31123703)). Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes (PubMed: [18936157](http://www.uniprot.org/citations/18936157)), PubMed: [21460634](http://www.uniprot.org/citations/21460634)), PubMed: [21795849](http://www.uniprot.org/citations/21795849)), PubMed: [25040165](http://www.uniprot.org/citations/25040165)). Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR (PubMed: [21795849](http://www.uniprot.org/citations/21795849)). Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity (PubMed: [21460634](http://www.uniprot.org/citations/21460634)). May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences (PubMed: [18936157](http://www.uniprot.org/citations/18936157)). Plays a role early in neuronal differentiation and is required for granule cell axon formation (PubMed: [11146101](http://www.uniprot.org/citations/11146101)). May also phosphorylate SESN2 and SQSTM1 to regulate autophagy (PubMed: [25040165](http://www.uniprot.org/citations/25040165)). Phosphorylates FLCN, promoting autophagy (PubMed: [25126726](http://www.uniprot.org/citations/25126726)). Phosphorylates AMBRA1 in response to autophagy induction, releasing AMBRA1 from the cytoskeletal docking site to induce autophagosome nucleation (PubMed: [20921139](http://www.uniprot.org/citations/20921139)).

研究领域 (Research Area)

Signal Transduction; Protein Phosphorylation; Ser / Thr Kinases; Neuroscience; Neurology process; Neurogenesis; Cardiovascular; Heart; Autophagy; Metabolism; Pathways and Processes; Mitochondrial Metabolism; Mitophagy fission and fusion

图片 (Image Data)

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Western blot analysis of Phospho-ULK1 (S556) expression in 293T transfected with ULK1 cell lysate.

注意事项 (Note)

For research use only .