

bs-3602R**[Primary Antibody]****ATG1/ULK1 Rabbit pAb**

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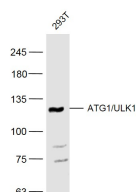
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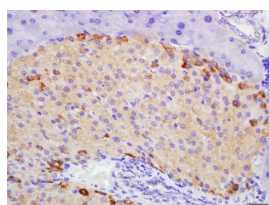
— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (0.5µg /Test) ICC/IF (1:100)
Clonality: Polyclonal		
GeneID: 8408	SWISS: O75385	
Target: ATG1/ULK1		
Immunogen: KLH conjugated synthetic peptide derived from human ATG1/ULK1: 951-1050/1050.		
Purification: affinity purified by Protein A		Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Horse)
Concentration: 1mg/ml		Predicted MW.: 116 kDa
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Cytoplasm
Background: ULK1 belongs to the serine/threonine protein kinase family. It is involved in axon growth and plays an essential role in neurite branching during sensory axon outgrowth. Knockdown of ULK1 results in impaired endocytosis of nerve growth factor (NGF), excessive axon arborization, and severely stunted axon elongation indicating that ULK1 mediates a non clathrin coated endocytosis in sensory growth cones. Knockdown of ULK1 also inhibits the autophagic response. It appears to act as a convergence point for multiple signals that regulate autophagy, and in turn interacts with a large number of autophagy related (Atg) proteins.		

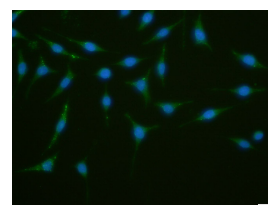
— VALIDATION IMAGES —



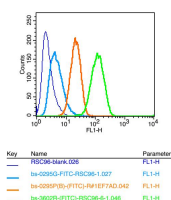
Sample: 293T(Human) Cell Lysate at 30 ug
 Primary: Anti-ATG1/ULK1 (bs-3602R) at 1/500
 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 116 kD Observed band size: 116 kD



Tissue/cell: mouse pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-ATG1/ULK1 Polyclonal Antibody, Unconjugated(bs-3602R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ATG1/ULK1) polyclonal Antibody, Unconjugated (bs-3602R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Positive control: RSC96 Isotype Control
 Antibody: Rabbit IgG; Secondary Antibody: Goat anti-rabbit IgG-FITC; Dilution: 1:200 in 1 X PBS containing 0.5% BSA Primary Antibody catalog

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

— SELECTED CITATIONS —

- **[IF=14.3]** Yangfei Zhao. et al. α -Lipoic Acid Ameliorates Arsenic-Induced Lipid Disorders by Promoting Peroxisomal β -Oxidation and Reducing Lipophagy in Chicken Hepatocyte..Advanced Science.2025 Jan 30:e2413255. Western blot ;Chicken. 39887668
- **[IF=12.063]** Jia Song. et al. Mesenchymal stromal cells ameliorate diabetes-induced muscle atrophy through exosomes by enhancing AMPK/ULK1-mediated autophagy. J CACHEXIA SARCOPENI. 2023 Jan;; WB ;Mouse. 36708027
- **[IF=8.886]** Bolin Cai. et al. LncEDCH1 improves mitochondrial function to reduce muscle atrophy by interacting with sarcoplasmic/endoplasmic reticulum calcium ATPase 2. Mol Ther-Nucl Acids. 2021 Dec;; WB ;Chicken. 35024244
- **[IF=7.525]** Ma Manting. et al. LncRNA-TBP mediates TATA-binding protein recruitment to regulate myogenesis and induce slow-twitch myofibers. CELL COMMUN SIGNAL. 2023 Dec;21(1):1-16 WB ;Chicken. 36635672
- **[IF=8.469]** Cai, Bolin. et al. Long noncoding RNA ZFP36L2-AS functions as a metabolic modulator to regulate muscle development. CELL DEATH DIS. 2022 Apr;13(4):1-12 WB ;Chicken. 35449125