

Anti-ATG1 Polyclonal Antibody

Product Details

Ig Type: IgG
Reactivity: Human, Mouse, Rat (predicted: Chicken, Pig, Cow, Horse, Rabbit)
Molecular Weight: Theoretical: 116 kDa. Actual: 116 kDa.
Purification: Protein A purified

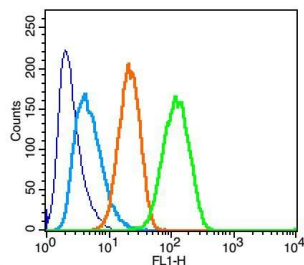
Applications

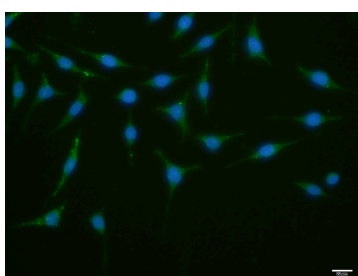
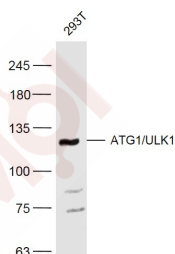
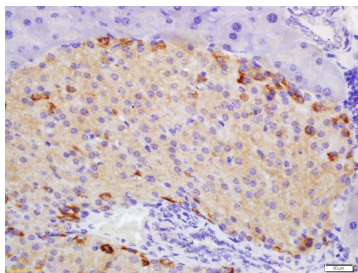
1. Positive control: RSC96
 Isotype Control Antibody: Rabbit IgG;
 Secondary Antibody: Goat anti-rabbit IgG-FITC;
 Dilution: 1:200 in 1 X PBS containing 0.5% BSA
 Primary Antibody catalog number: TMAB-00162;
 Dilution: 0.5 µg in 100 µL 1X PBS containing 0.5% BSA

2. Tissue/cell: mouse pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
 Incubation: Anti-ATG1/ULK1 Polyclonal Antibody, Unconjugated (TMAB-00162) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

3. Sample:
 293t (Human) Cell Lysate at 30 µg
 Primary: Anti-ATG1/ULK1 (TMAB-00162) at 1/500 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 116 kDa
 Observed band size: 116 kDa

4. SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min;
 Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (ATG1/ULK1) polyclonal Antibody, Unconjugated (TMAB-00162) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.





Application: FCM, ICC/IF, IF, IHC-Fr, IHC-P, WB

Recommended: FCM=0.5 µg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human ATG1/ULK1

Antigen Species: Human

Gene ID: 8408

Uniprot ID: O75385

Synonyms: Serine/threonine protein kinase Unc51.1;Unc 51 like kinase 1;Autophagy-related protein 1 homolog;ATG1;UNC51;ULK1;ATG 1;ATG1A;Unc 51(C. elegans) like kinase 1;Unc-51 like kinase 1 (C. elegans);hATG1;Serine/threonine protein kinase ULK1;ULK 1;Unc-51-like kinase 1;UNC 51

Biology Area: Other Kinases,Neurogenesis,Mitophagy fission and fusion,Autophagy

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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