

Anti-MAP1A Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 326 kDa.
Purification:	Protein A purified

Applications

1. Blank control (black line): U87MG.
Primary Antibody (green line): Rabbit Anti-MAP1A antibody (TMAB-08554)
Dilution: 1 µg/Test;
Secondary Antibody: Goat anti-rabbit IgG-AF488
Dilution: 0.5 µg/Test.
Negative control (white blue line): PBS
Isotype control (orange line): Normal Rabbit IgG
Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Verified Activity:

2. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MAP1A) Polyclonal Antibody, Unconjugated (TMAB-08554) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MAP1A) Polyclonal Antibody, Unconjugated (TMAB-08554) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MAP1A) Polyclonal Antibody, Unconjugated (TMAB-08554) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.

Application: IHC-P,IHC-Fr,IF,FCM

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Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. 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 MAP1A

Antigen Species: Human

Gene ID: 440738

Uniprot ID: Q9BXW4

Research Background

A major contributor to cellular homeostasis is the ability of the cell to strike a balance between the formation and degradation/removal of its cellular components. This process of internal cellular turn-over is called autophagy (self-eating), and is facilitated by a pathway of around 16 interacting proteins in the human. LC3, a ubiquitin-like modifier protein, is the human homolog of yeast Apg8 and is involved in the formation of autophagosomal vacuoles, called autophagosomes. There are three isoforms of human LC3 (named MAP1LC3A, MAP1LC3B, and MAP1LC3C), which exhibit different tissue distributions. A disruption to the autophagic process is now associated with the progression of several cancers, neurodegenerative disorders and cardiac pathologies, where LC3 is widely employed as a marker for autophagy.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481
