

Product datasheet for **AP32203PU-N**

LC3B (MAP1LC3B) (1-30) Rabbit Polyclonal Antibody

Product data:

| | |
|-----------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | ELISA: 1/1,000. Western blot: 1/50-1/100. |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Isotype: | Ig |
| Clonality: | Polyclonal |
| Immunogen: | KLH conjugated synthetic peptide between 1~30 amino acids surrounding T6 of Human MAP1LC3B |
| Specificity: | This antibody recognizes Human and Mouse LC3 (APG8B). Other species not tested. |
| Formulation: | PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction |
| Concentration: | lot specific |
| Purification: | Protein A column, followed by peptide affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | microtubule associated protein 1 light chain 3 beta |
| Database Link: | Entrez Gene 81631 Human Q9GZQ8 |



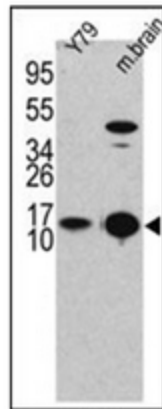
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Background:

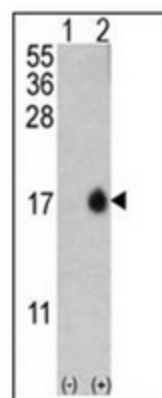
Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3b is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II.

Synonyms:

MAP1LC3B, MAP1A/MAP1B, Map1lc3b, Map1alc3, Map1lc3

Product images:


Western blot analysis of LC3B Antibody (T6) in Y79 cell line lysates and mouse brain tissue lysates (35ug/lane)



Western blot analysis of MAP1LC3B (arrow) using LC3B Antibody (T6) in Y79 cell line lysates and mouse brain tissue lysates (35 ug/lane). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAP1LC3B gene (Lane 2) (Origene Technologies).