LC3 Antibody (APG8A) (P45)

Catalog_no： AB1720

Applications： WB, IHC-P

Reactivity： H

Category： 抗原抗体

Size： 100μL/50μL

Immunogen： HUMAN:30-56

Specificity： This LC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-56 amino acids from human LC3.

Dilution： IF,1:100;WB,1:1000;IHC-P,1:10~50;

Purification： Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Other_name： Microtubule-associated proteins 1A/1B light chain 3A, Autophagy-related protein LC3 A, Autophagy-related ubiquitin-like modifier LC3 A, MAP1 light chain 3-like protein 1, MAP1A/MAP1B light chain 3 A, MAP1A/MAP1B LC3 A, Microtubule-associated protein 1 light chain 3 alpha, MAP1LC3A

Isotype： Rabbit Ig

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. MAP1LC3a 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.

reference： References for protein: 1.Tanida, I., et al., J. Biol. Chem. 279(35):36268-36276 (2004). 2.He, H., et al., J. Biol. Chem. 278(31):29278-29287 (2003). 3.Mann, S.S., et al., J. Neurosci. Res. 43(5):535-544 (1996). References for U251 cell line: 1. Wes