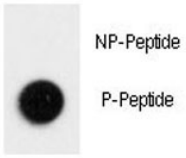
Phospho-LC3B Antibody (pT12) (F48560)

Catalog No.	Formulation	Size
F48560-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48560-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Bovine
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9GZQ8
Applications	Dot Blot : 1:500
Limitations	This phospho-LC3B antibody is available for research use only.



Dot blot analysis of phospho-LC3B antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

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. 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).

Application Notes

Titration of the phospho-LC3B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-LC3B antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pT12 of human LC3B.

Storage

Aliquot the phospho-LC3B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.