

## LC3B Polyclonal Antibody

<b>Catalog No :</b>	YN5524
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IF;IHC
<b>Target :</b>	LC3B
<b>Fields :</b>	>>Mitophagy - animal;>>Autophagy - animal;>>Ferroptosis;>>Apelin signaling pathway;>>NOD-like receptor signaling pathway;>>Amyotrophic lateral sclerosis;>>Pathways of neurodegeneration - multiple diseases;>>Shigellosis;>>Kaposi sarcoma-associated herpesvirus infection
<b>Gene Name :</b>	MAP1LC3B
<b>Protein Name :</b>	Microtubule-associated proteins 1A/1B light chain 3B
<b>Human Gene Id :</b>	81631
<b>Human Swiss Prot No :</b>	Q9GZQ8
<b>Mouse Swiss Prot No :</b>	Q9CQV6
<b>Rat Swiss Prot No :</b>	Q62625
<b>Immunogen :</b>	Recombinant Protein of MAP LC3 $\beta$
<b>Specificity :</b>	The antibody detects endogenous MAP LC3 $\beta$ protein.
<b>Formulation :</b>	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:1000-2000 IHC 1:200-500 IF 1:200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Storage Stability :** -15°C to -25°C/1 year (Do not lower than -25°C)

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**Observed Band :** 14,16kD

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**Background :** The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component. [provided by RefSeq, Jul 2008],

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**Function :** caution:PubMed:12740394 has shown that the protein is cleaved at Lys-122 but PubMed:15355958 has shown that the cleavage site is at Gly-120 as in other mammalian orthologs.,function:Probably involved in formation of autophagosomal vacuoles (autophagosomes).,PTM:The precursor molecule is cleaved by APG4B/ATG4B to form LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form LC3-II.,similarity:Belongs to the MAP1 LC3 family.,subcellular location:LC3-II binds to the autophagic membranes.,subunit:3 different light chains, LC1, LC2 and LC3, can associate with MAP1A and MAP1B proteins.,tissue specificity:Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver.,

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**Subcellular Location :** Cytoplasmic vesicle, autophagosome membrane ; Lipid-anchor . Endomembrane system ; Lipid-anchor . Mitochondrion membrane ; Lipid-anchor . Cytoplasm, cytoskeleton . Cytoplasmic vesicle . LC3-II binds to the autophagic membranes. LC3-II localizes with the mitochondrial inner membrane during Parkin-mediated mitophagy (PubMed:28017329). Localizes also to discrete punctae along the ciliary axoneme. .

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**Expression :** Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver.

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## Products Images