

## LC3B protein

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YD0062  |
| <b>Reactivity :</b>          | Human   |
| <b>Applications :</b>        | WB;SDS-PAGE   |
| <b>Gene Name :</b>           | MAP1LC3B  |
| <b>Protein Name :</b>        | LC3B protein  |
| <b>Sequence :</b>            | Amino acid: 1-72, with his-MBP tag.   |
| <b>Human Gene Id :</b>       | 81631   |
| <b>Human Swiss Prot No :</b> | Q9GZQ8  |
| <b>Mouse Swiss Prot No :</b> | Q9CQV6  |
| <b>Formulation :</b>         | Liquid in PBS   |
| <b>Source :</b>              | E.coli  |
| <b>Dilution :</b>            | WB 1:500-2000   |
| <b>Concentration :</b>       | SDS-PAGE >90%   |
| <b>Storage Stability :</b>   | -20 °C/6 month,-80 °C for long storage  |
| <b>Background :</b>          | <p>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.,</p> |

**Function :** proteolysis, autophagy, macromolecule catabolic process, modification-dependent protein catabolic process, protein catabolic process, modification-dependent macromolecule catabolic process, cellular protein catabolic process, cellular macromolecule catabolic process, proteolysis involved in cellular protein catabolic process,

**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. .

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

## Products Images

