

## MAP1LC3B polyclonal antibody

Catalog: AP6043

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

MAP1LC3B, a homolog of Apg8p, is essential for autophagy and associated to the autophagosome membranes after processing. Two forms of LC3 $\beta$ , the cytosolic LC3-I and the membrane-bound LC3-II, are produced post-translationally. LC3-I is formed by the removal of the C-terminal 22 amino acids from newly synthesized LC3 $\beta$ , followed by the conversion of a fraction of LC3-I into LC3-II. LC3 enhances fibronectin mRNA translation in ductus arteriosus cells through association with 60S ribosomes and binding to an AU-rich element in the 3' untranslated region of fibronectin mRNA. This facilitates sorting of fibronectin mRNA onto rough endoplasmic reticulum and translation. MAP LC3 $\beta$  may also be involved in formation of autophagosomal vacuoles. It is expressed primarily in heart, testis, brain and skeletal muscle.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 16 kDa

### Swiss-Prot:

Q9GZQ8

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:2000

IP: 1:50~1:200

IF: 1:100~1:500

### Storage&Stability:

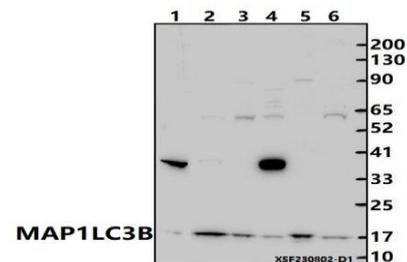
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

MAP1LC3B polyclonal antibody detects endogenous

levels of MAP1LC3B protein.

### DATA:



Western blot (WB) analysis of MAP1LC3B pAb at 1:2000 dilution

Lane1:The Brain tissue lysate of Rat(30ug)

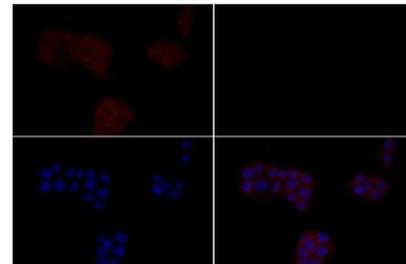
Lane2:PC12 whole cell lysate(30ug)

Lane3:3T3-L1 whole cell lysate(30ug)

Lane4:MCF-7 whole cell lysate(30ug)

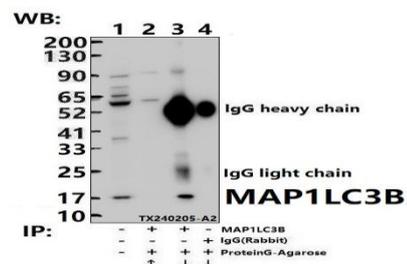
Lane5:U-87MG whole cell lysate(30ug)

Lane6:Hela whole cell lysate(30ug)



Immunofluores-

cence analysis of MCF-7 cells using MAP1LC3B pAb at dilution of 1:200 (40x lens).



Immunoprecipitation of Hela cell lysates using MAP1LC3B pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4). Lane 1 is

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

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30% input. The western blot was probed using MAP1LC3B pAb.

For research use only, not for use in diagnostic procedure.

Note:

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