Mouse Anti-LC3β [G2]: MC0467, MC0467RTU7

Intended Use: For Research Use Only

Description: Microtubule-associated proteins (MAP) regulate microtubule stability and play critical roles in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP-light chain 3 alpha (LC3α) and MAP-light chain 3 beta (LC3β) are subunits of MAP1A and MAP1B. LC3β, a homolog of Apg8p, is essential for autophagy and associated to the autophagosome membranes after processing. Two forms of LC3β, 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 LC3β, 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. LC3β is expressed primarily in heart, testis, brain and skeletal muscle.

Specifications

Clone:	G2
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human, mouse, rat
Immunogen:	N-terminus of human MAP LC3β aa 1-50
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB

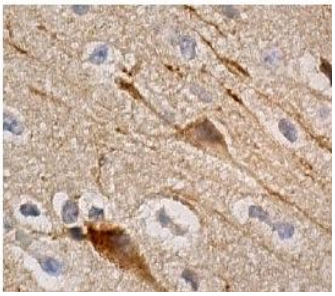
Package:

Description	Catalog No.	Size
LC3β [G2] Concentrated	MC0467	1 ml
LC3β [G2] Prediluted	MC0467RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Normal colon, normal cerebral cortex tissue
Concentrated Dilution:	25-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human brain tissue stained with anti-LC3β using DAB

References:

1. miR-376a-3p and miR-376b-3p overexpression in Hutchinson-Gilford progeria fibroblasts inhibits cell proliferation and induces premature senescence. Diane Frankel, et al. iScience. Jan 10;25(2):103757, 2022. doi: 10.1016/j.isci.2022.103757.
2. Triclosan-induced neuroinflammation develops caspase-independent and TNF-α signaling pathway associated necroptosis in Neuro-2a cells. Parul Katiyar, et al. Curr Res Toxicol. May 6;3:100072, 2022. doi: 10.1016/j.crtox.2022.100072.

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