Best Tools for immunology Research

LC3B (PT0235R) PT® Rabbit mAb

Catalog No :	YM8147
Reactivity :	Human;Mouse;Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	LC3B
Fields :	>>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
Gene Name :	MAP1LC3B
Protein Name :	MAP1LC3B
Human Gene Id :	81631
Human Swiss Prot No :	Q9GZQ8
Mouse Swiss Prot No :	Q9CQV6
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000,WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	14kD,16kD

Observed Band : 14kD,16kD

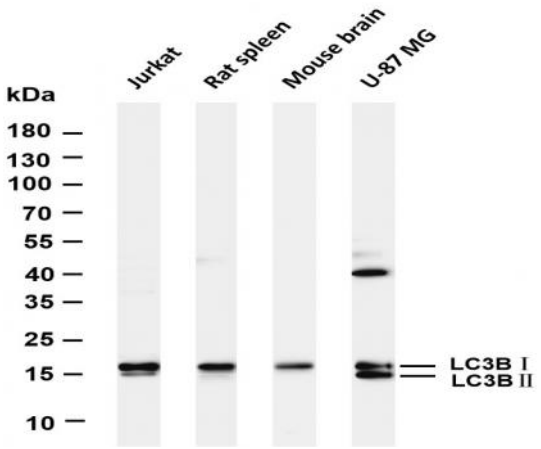
Background : The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation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

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.,

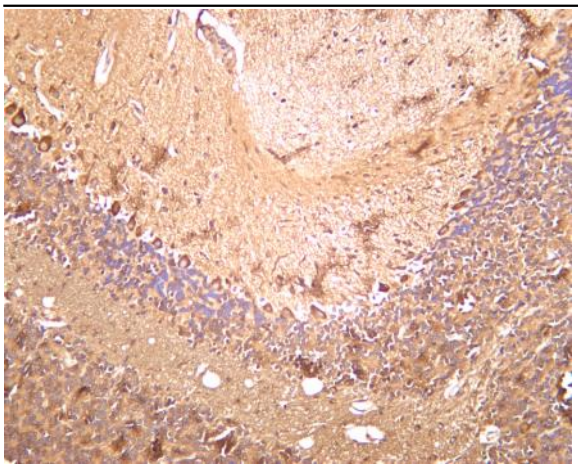
Subcellular Location : Cytoplasm

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

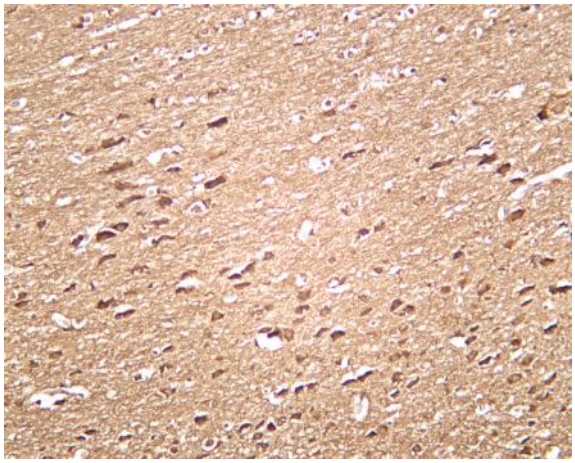
Products Images



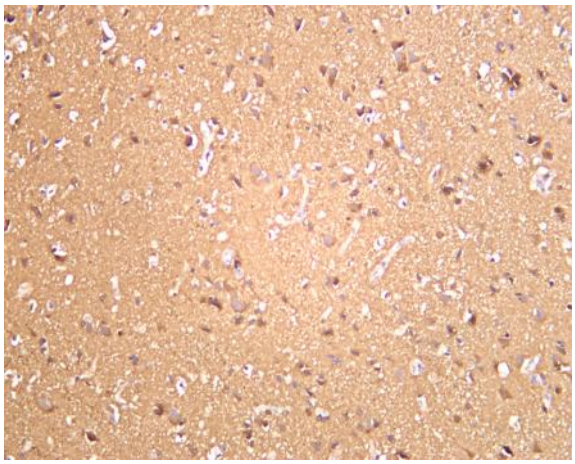
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LC3B (PT0235R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1:Jurkat Lane 2:Rat spleen Lane 3: Mouse brain Lane 3: U-87 MG Predicted band size: 14,16kDa Observed band size: 14,16kDa



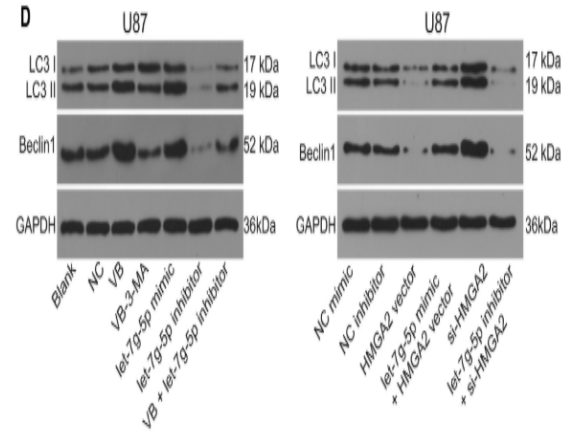
Mouse brain was stained with anti-LC3B (PT0235R) rabbit antibody



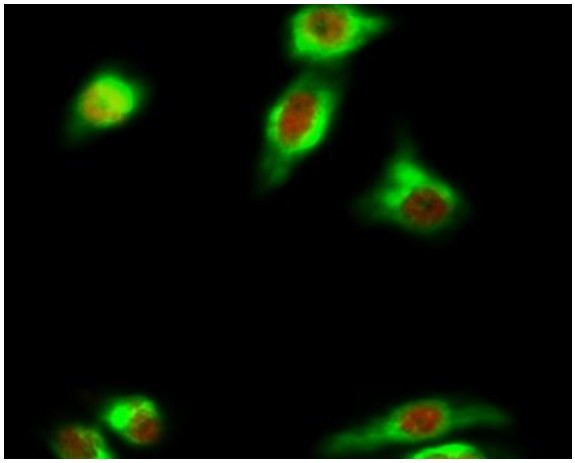
Rat brain was stained with anti-LC3B (PT0235R) rabbit antibody



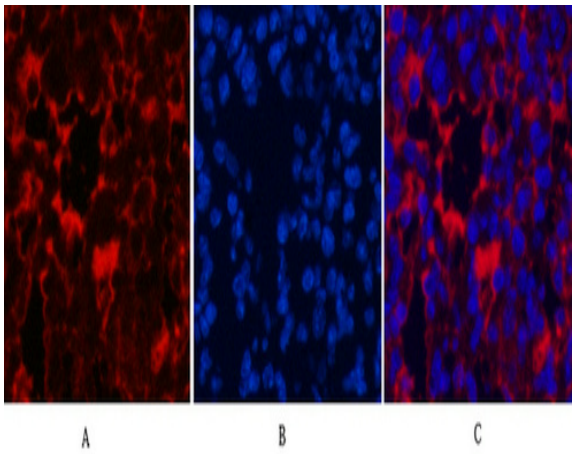
Human brain was stained with anti-LC3B (PT0235R) rabbit antibody



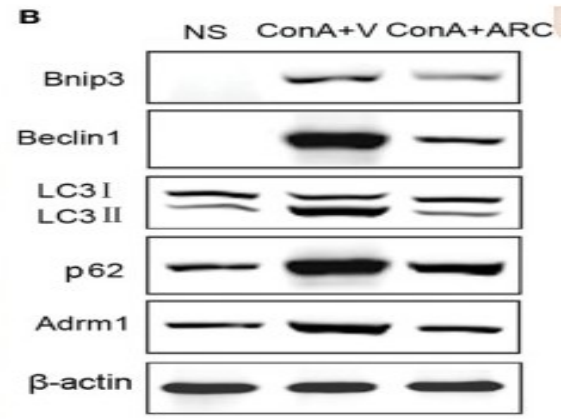
Jia, Wei-Qiang, et al. "Verbascoside inhibits progression of glioblastoma cells by promoting Let-7g-5p and down-regulating HMGA2 via Wnt/beta-catenin signalling blockade." Journal of cellular and molecular medicine 24.5 (2020): 2901-2916.



Immunofluorescence analysis of Hela cell. 1,Cleaved-PARP-1 (D214) Antibody(red) was diluted at 1:200(4° overnight). LC3B Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



Immunofluorescence analysis of Mouse-lung tissue. 1,LC3B Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Feng, Qin. "Quantitative proteomic analysis reveals that Arctigenin alleviates concanavalin A-induced hepatitis through suppressing immune system and regulating autophagy." Frontiers in immunology 9 (2018): 1881.