



LC3B Rabbit mAb

Catalog No	YP-rAb-18030
Isotype	IgG
Reactivity	Human,Mouse,Rat,Pig
Applications	WB,IHC,IF,ELISA
Gene Name	LC3B;MAP1LC3B
Protein Name	LC3B;MAP1LC3B
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	LC3B;MAP1LC3B
Observed Band	14kD, 16kD
Calculated Molecular Weight	14kD, 16kD
Cell Pathway	Cytoplasm
Tissue Specificity	Most abundant in heart, brain, skeletal muscle and testis. Little expression observed in liver.
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.,





Background

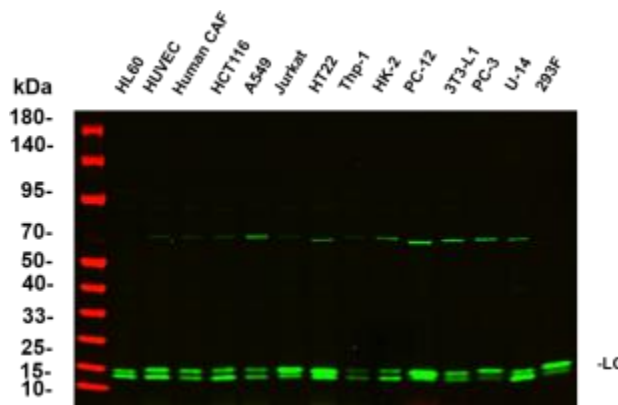
The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic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

matters needing attention

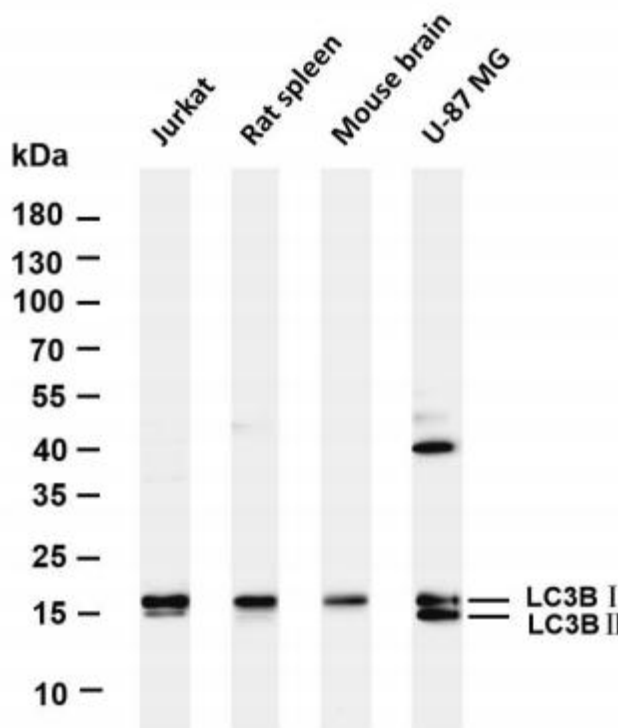
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

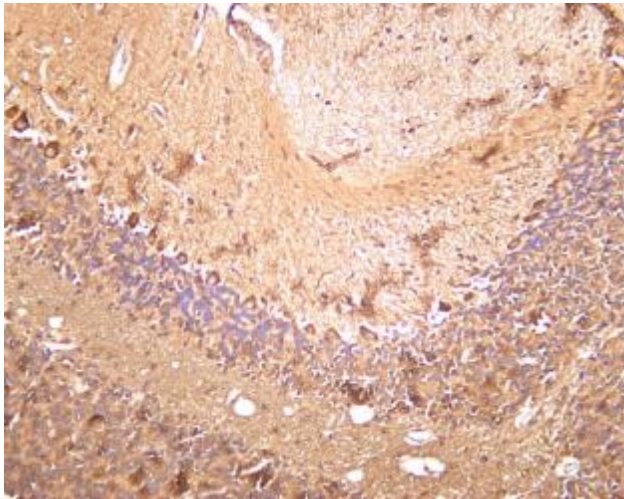


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody

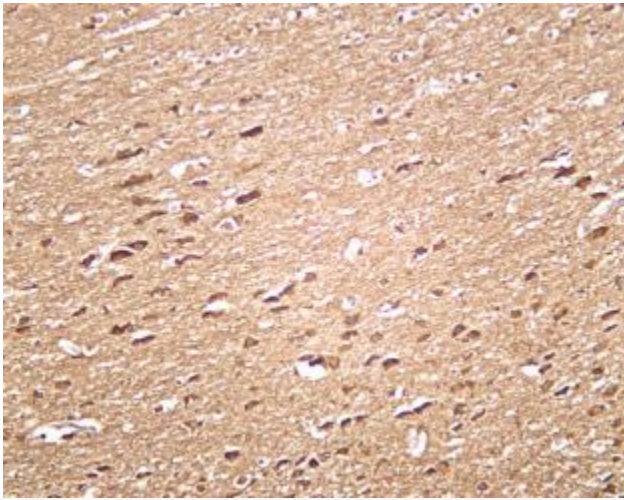


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LC3B antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1:Jurkat Lane 2:Rat spleen Lane 3: Mouse brain Lane 3: U-87 MG Predicted band size: 14,16kDa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

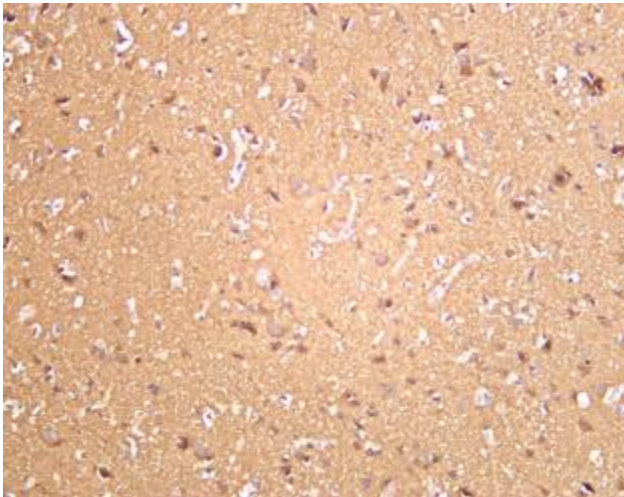




Mouse brain was stained with anti-LC3B rabbit antibody



Rat brain was stained with anti-LC3B rabbit antibody



Human brain was stained with anti-LC3B rabbit antibody

