



Datasheet for ABIN5555711 anti-LC3B antibody (N-Term)

7 Images



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Overview

Quantity:	200 µL
Target:	LC3B (MAP1LC3B)
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LC3B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 1~30 amino acids from the N-terminal region of Human LC3
Isotype:	Ig Fraction
Purification:	Saturated Ammonium Sulfate precipitation followed by dialysis against PBS

Target Details

Target:	LC3B (MAP1LC3B)
Alternative Name:	LC3B (MAP1LC3B Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic

Target Details

enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3b is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II. Synonyms: Autophagy-related protein LC3 B, Autophagy-related ubiquitin-like modifier LC3 B, MAP1A / 1B light chain 3 B, MAP1A/MAP1B, MAP1LC3B, Map1alc3, Map1lc3, Map1lc3b, Microtubule-associated protein 1 light chain 3 beta, Microtubule-associated proteins 1A/1B light chain 3B

Gene ID: 81631

NCBI Accession: [NP_073729](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS containing 0.09 % (W/V) Sodium Azide as preservative

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

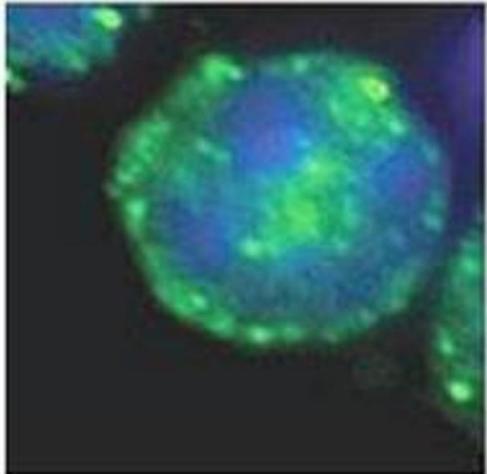
Handling Advice: Avoid repeated freezing and thawing.

Handling

Storage: 4 °C/-20 °C

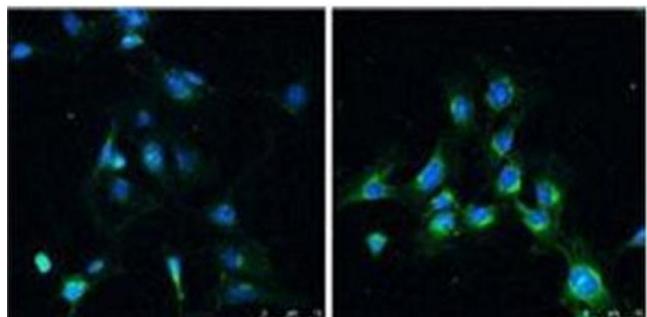
Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Validation report #104384 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



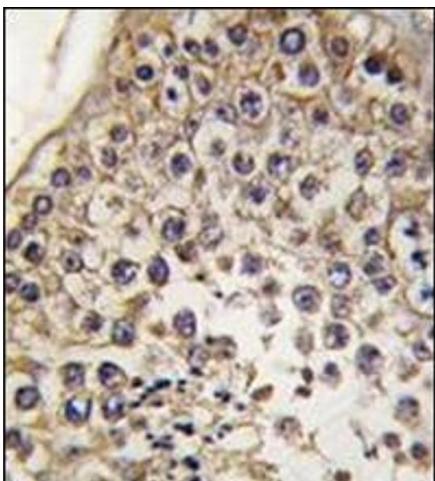
Immunofluorescence

Image 1. FACS sorted LSK cells (Lineage-Sca-1+c-kit+, enriched for hematopoietic stem cells) incubated with LC3B Antibody at 1/50 dilution at 4 degree overnight., and detected with Alexa Fluor 488 conjugated anti-Rabbit antibody (1/200). *Data courtesy of Wenbin Xiao, La Jolla Institute for Allergy and Immunology.*



Immunofluorescence

Image 2. Immunofluorescence analysis of LC3B Antibody in Rat brain before (left) and after (right) treatment with rapamycin (100 nm for 4 hr).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-Fixed, Paraffin-Embedded human testis tissue reacted with Autophagy LC3B Antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN5555711.