

# [KD Validated] LC3B Rabbit mAb

Catalog No.: A19665 **Recombinant** **113 Publications**

## Basic Information

### Observed MW

14kDa/16kDa

### Calculated MW

15kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IF/ICC, IP

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0144

## 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.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
81631	Q9GZQ8

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 2-107 of human LC3B (Q9GZQ8).

### Synonyms

LC3B; ATG8F; MAP1LC3B-a; MAP1A/1BLC3; 3B

## Contact

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## Product Information

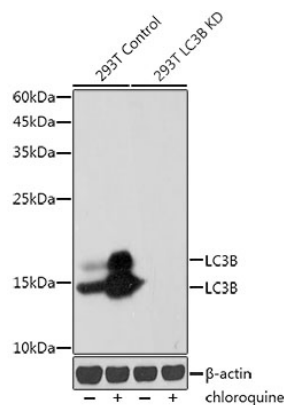
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

### Storage

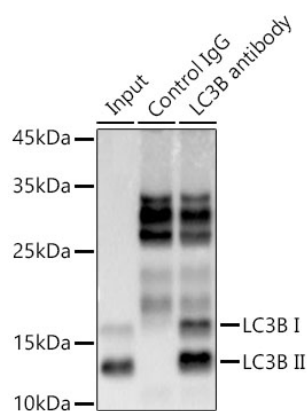
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

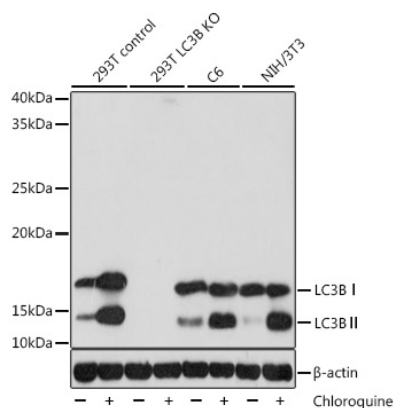
Validation Data



Western blot analysis of lysates from wild type (WT) and LKB1 knockdown (KD) 293T cells, using [KD Validated] LC3B Rabbit mAb (A19665) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

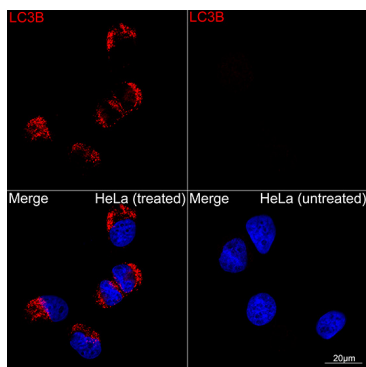


Immunoprecipitation analysis of 300  $\mu$ g extracts from 293T cells using 3  $\mu$ g [KD Validated] LC3B Rabbit mAb (A19665). Western blot was performed from the immunoprecipitate using LC3B antibody (A19665) at a dilution of 1:1000.

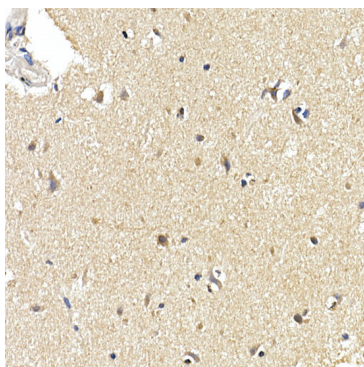


Western blot analysis of various lysates, using [KD Validated] LC3B Rabbit mAb (A19665) at 1:1000 dilution. 293T, C6 and NIH/3T3 cells were treated by Chloroquine (50  $\mu$ M) at 37°C for 20 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.

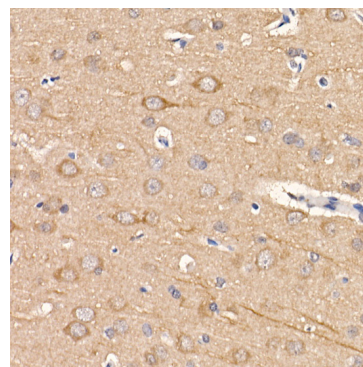
## Validation Data



Confocal imaging of HeLa cells (treated with chloroquine) and HeLa cells (untreated) using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of LC3B in paraffin-embedded human brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of LC3B in paraffin-embedded rat brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.