

A19665

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## [KD Validated] LC3B Rabbit mAb

Catalog No.: A19665 **Recombinant** **115 Publications**

### Basic Information

#### Observed MW

14kDa/16kDa

#### Calculated MW

15kDa

#### Category

SMab Recombinant Monoclonal Antibody

#### Applications

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

#### 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

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

### Immunogen Information

Gene ID	Swiss Prot
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



[www.abclonal.com](http://www.abclonal.com)

### Product Information

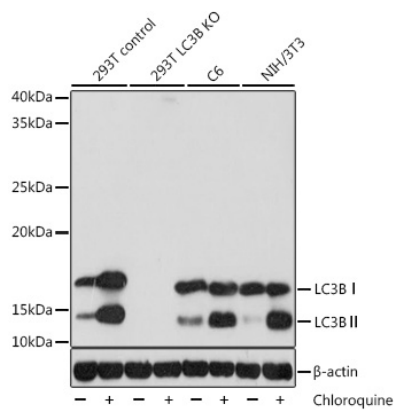
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

#### Storage

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

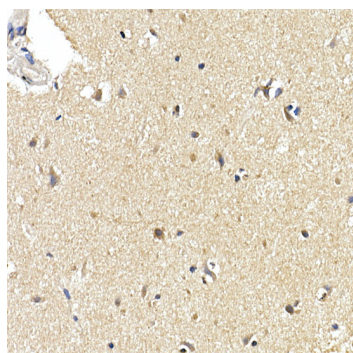
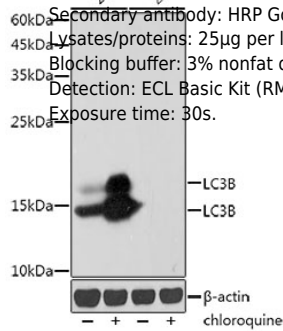
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

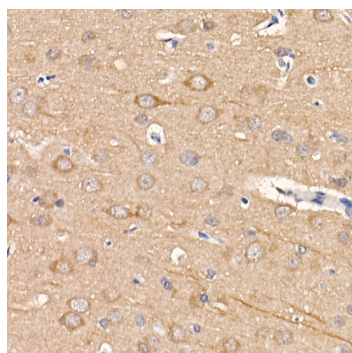


Western blot analysis of various lysates, using [KD Validated] LC3B Rabbit mAb (A19665) at 1:1000 dilution. 293T, C6 and NIH/3T3 cells were treated by Chloroquine (50  $\mu$ M) at 37°C for 20 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu$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

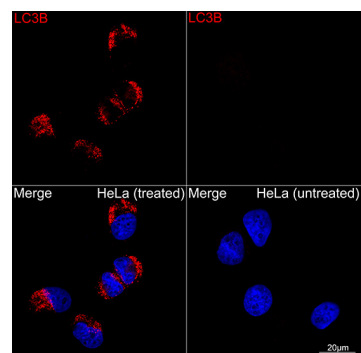
Western blot analysis of lysates from wild type (WT) and LC3B knockdown (KD) 293T cells, using [KD Validated] LC3B Rabbit mAb (A19665) at 1:1000 dilution. wild type (WT) and LC3B knockdown (KD) 293T cells were treated by Chloroquine (50  $\mu$ M) at 37°C for 20 hours. Secondary antibody: HRP Goat Anti-Rabbit 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: 30s.



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.



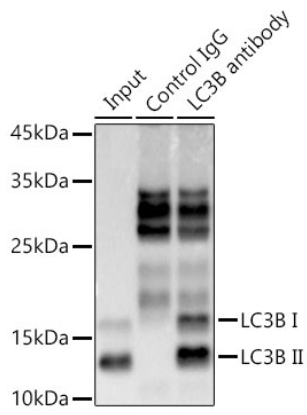
Immunohistochemistry analysis of LC3B in paraffin-embedded rat brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



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.

## Validation Data

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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.