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[KD Validated] LC3B Rabbit mAb

Catalog No.: A19665 Recombinant 257 Publications

Basic Information

Observed MW
14 kDa/16 kDa

Calculated MW
15 kDa

Category
Primary antibody

Applications
WB,Auto WB,IP,IF/ICC,IF-F,IF-P,IHC-P,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	1:1000 - 1:4000
Auto WB	1:100 - 1:500
IP	0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells
IF/ICC	1:200 - 1:800
IF-F	1:200 - 1:400
IF-P	1:200 - 1:400
IHC-P	1:100 - 1:500
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
81631

Swiss Prot
Q9GZQ8

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

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

Product Information

Source
Rabbit

Isotype
IgG

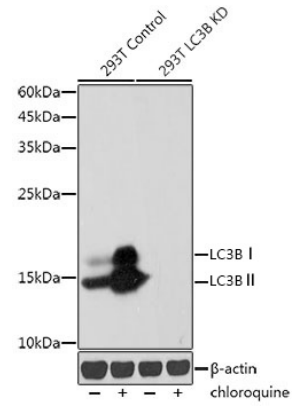
Purification
Affinity purification

Storage
Store at -20℃

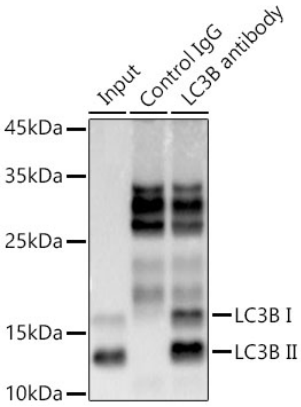
Contact

☎	400-999-6126
✉	cn.market@abclonal.com.cn
🌐	www.abclonal.com.cn

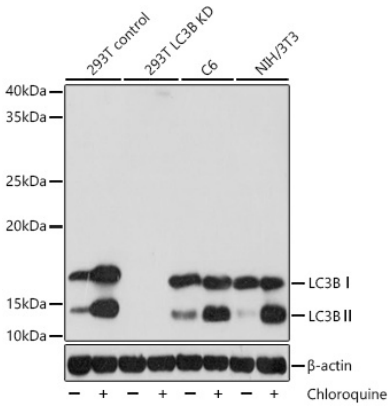
Validation Data



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 with Chloroquine (50 μM) at 37℃ for 20 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

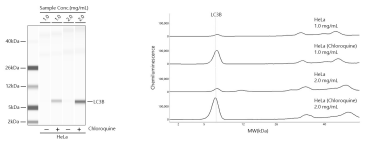


Immunoprecipitation analysis of 300 μg extracts from 293T cells using 3 μg [KD Validated] LC3B Rabbit mAb (A19665). Western blot was performed from the immunoprecipitate using LC3B antibody (A19665) at a dilution of 1:1000.

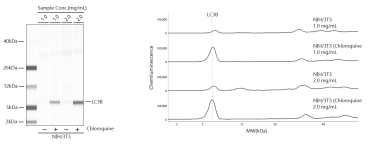


Western blot analysis of various lysates, using [KD Validated] LC3B Rabbit mAb (A19665) at 1:1000 dilution. 293T, C6 and NIH/3T3 cells were treated with Chloroquine (50 μM) at 37℃ for 20 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: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

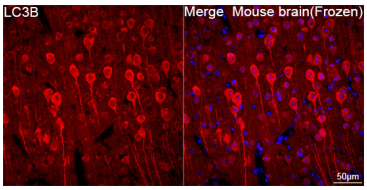
Validation Data



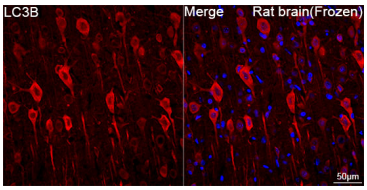
Simple Western™ analysis of lysates from HeLa cells using [KD Validated] LC3B Rabbit mAb (A19665) at 1:100 dilution. HeLa cells were treated with Chloroquine (50 µM) at 37℃ for 20 hours. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 1.0 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 1.0 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 2-40 kDa separation module.



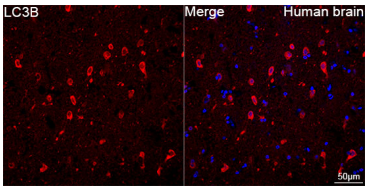
Simple Western™ analysis of lysates from NIH/3T3 cells using [KD Validated] LC3B Rabbit mAb (A19665) at 1:100 dilution. NIH/3T3 cells were treated with Chloroquine (50 µM) at 37℃ for 20 hours. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 1.0 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 1.0 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 2-40 kDa separation module.



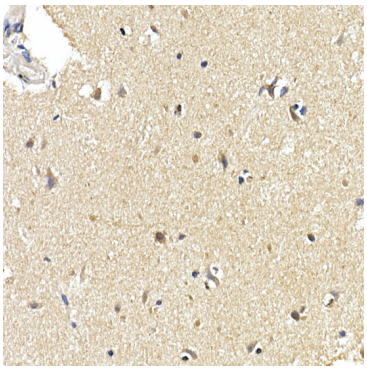
Confocal imaging of frozen sections of Mouse brain tissue using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat brain tissue using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

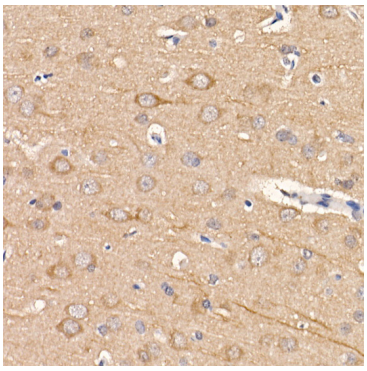


Confocal imaging of paraffin-embedded Human brain tissue using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

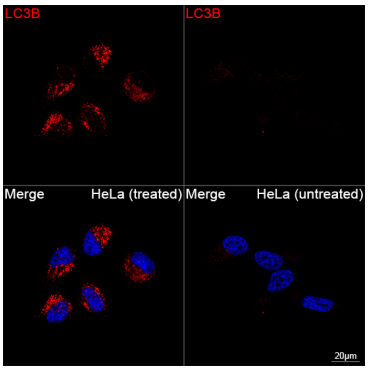


Immunohistochemistry analysis of paraffin-embedded Human brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

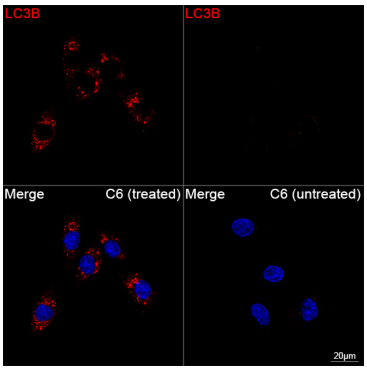
Validation Data



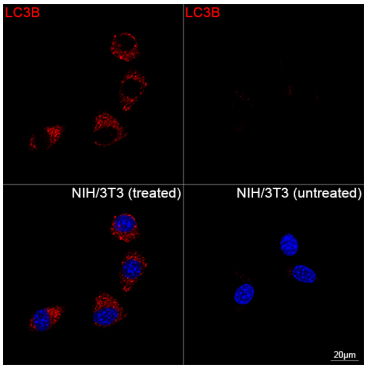
Immunohistochemistry analysis of paraffin-embedded Rat brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of HeLa cells (treated with Chloroquine) and HeLa cells (untreated) using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells (treated with Chloroquine) and C6 cells (untreated) using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells (treated with Chloroquine) and NIH/3T3 cells (untreated) using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.