

[KD Validated] LC3B Rabbit mAb

Catalog NO.: A19665 **Recombinant** **257 Publications**

Basic Information

Observed MW

14 kDa/16 kDa

Calculated MW

15 kDa

Category

Monoclonal Antibodies

Applications

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

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Clone 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	Swiss Prot
81631	Q9GZQ8

Immunogen

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

Synonyms

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

Contact

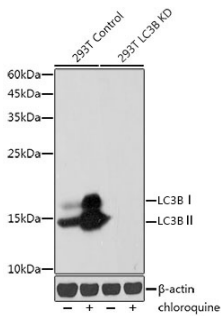
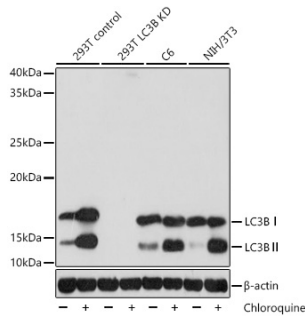
☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

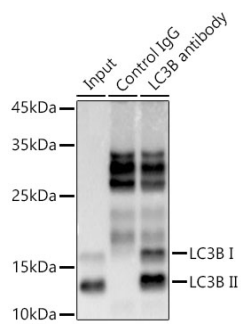
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

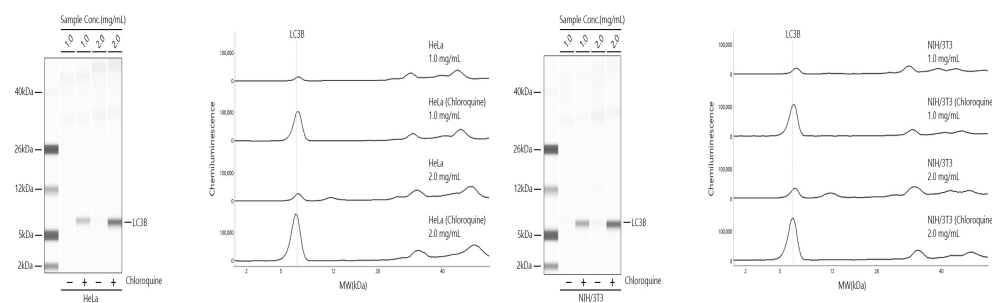
Validation Data





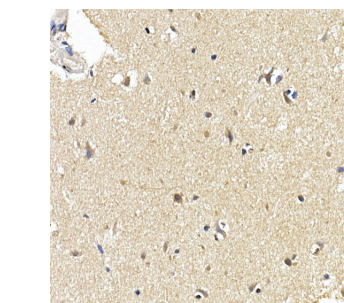
Immunoprecipitation analysis of 300 μ g extracts from 293T cells using 3 μ g [KD Validated] LC3B Rabbit mAb (A19665). Western blot was performed from the immunoprecipitate using LC3B antibody (A19665) at a dilution of 1:1000.

Validation Data

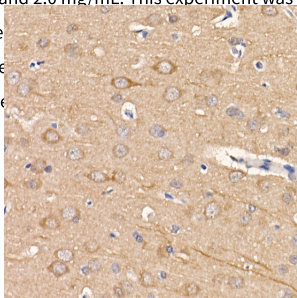


Simple Western™ analysis of lysates from HeLa cells using [KD Validated] LC3B Rabbit mAb (A19665) at 1:100 dilution. HeLa cells were treated with Chloroquine (50 μM) at 37°C for 20 hours. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 1.0 mg/mL and 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 reduced conditions using the Simple Western instrument.

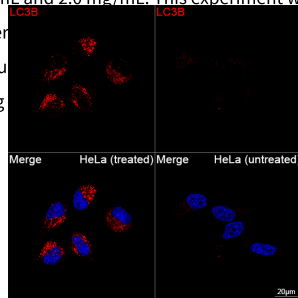
Simple Western™ analysis of lysates from NIH/3T3 cells using [KD Validated] LC3B Rabbit mAb (A19665) at 1:100 dilution. NIH/3T3 cells were treated with Chloroquine (50 μM) at 37°C for 20 hours. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 1.0 mg/mL 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 reduced conditions using the Simple Western instrument.



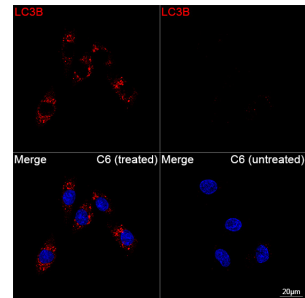
Immunohistochemistry analysis of paraffin-embedded Human brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



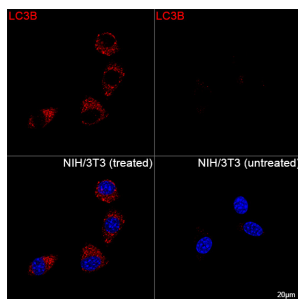
Immunohistochemistry analysis of paraffin-embedded Rat brain using [KD Validated] LC3B Rabbit mAb (A19665) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



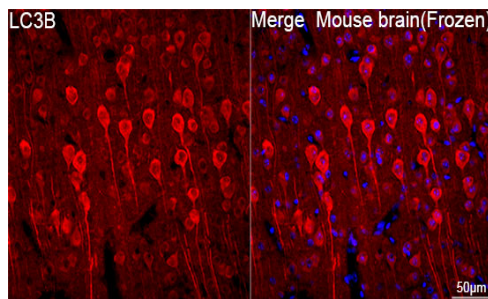
Confocal imaging of HeLa cells (treated with Chloroquine) and HeLa cells (untreated) using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: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



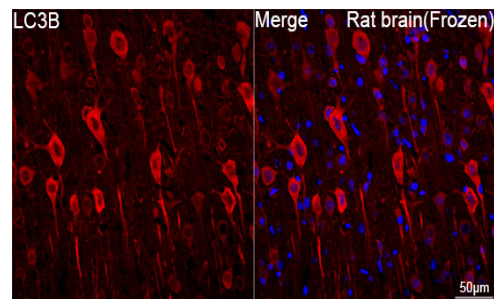
Confocal imaging of C6 cells (treated with Chloroquine) and C6 cells (untreated) using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



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.



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). Objective: 100x.



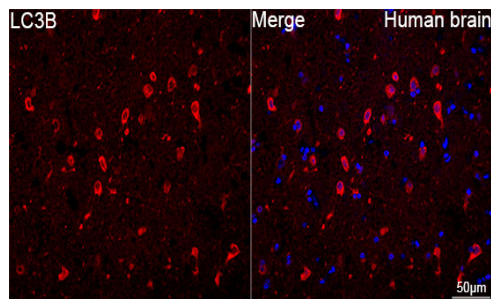
Confocal imaging of frozen sections of Rat brain tissue using [KD Validated] LC3B Rabbit mAb (A19665, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

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Validation Data



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.

