[KO Validated] LC3B Monoclonal Antibody

CAB19665

Description

This [KO Validated] LC3B Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB19665
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	LC3B, ATG8F, MAP1LC3B-a, MAP1A/1BLC3, 3B
Clone:	ARC0144
Applications:	WB IHC-P IF/ICC IP ELISA
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	81631
Uniprot:	AB_2862723
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	14 kDa/16 kDa
Calculated MW:	15 kDa

Preparation & Storage

Storage: Store at -20℃. 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.

Store Bradford Reagent at Room Temperature for 1 Year.

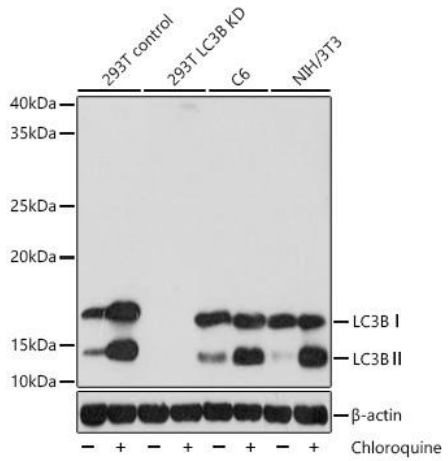
Positive Sample: 293T, 293T treated with Chloroquine, C6, C6 treated with Chloroquine, NIH/3T3, NIH/3T3 treated with Chloroquine

Recommended Dilutions:

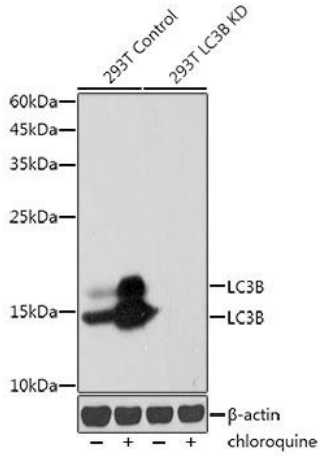
WB	1:1000 - 1:4000
IHC-P	1:100 - 1:500
IF/ICC	1:200 - 1:800
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

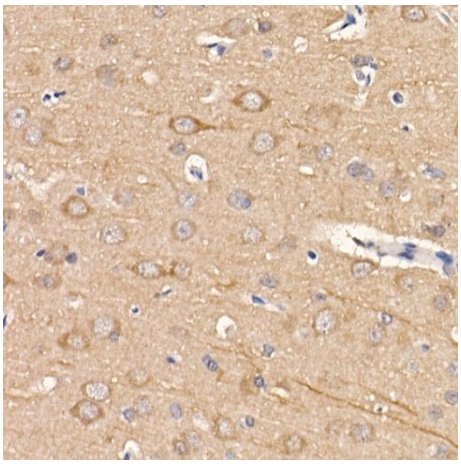
Validation Data



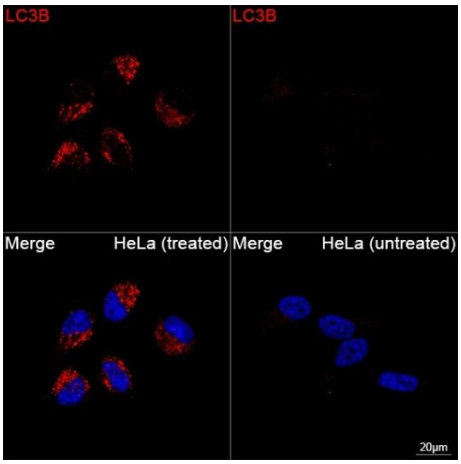
Western blot analysis of various lysates, using [KD Validated] LC3B Rabbit mAb (CAB19665) at 1:1000 dilution. 293T, and NIH/3T3 cells were treated with Chloroquine (50 µM) at 37℃ for 20 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 5s.



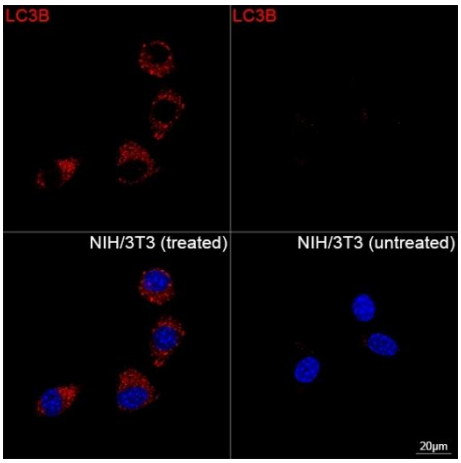
Western blot analysis of lysates from wild type(WT) and LC3B knockdown (KD) 293T cells, using [KD Validated] LC3B Rabbit mAb (CAB19665) at 1:1000 dilution. wild type(WT) and LC3B knockdown (KD) 293T cells were treated with Chloroquine (50 μM) at 37℃ for 20 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 30s.



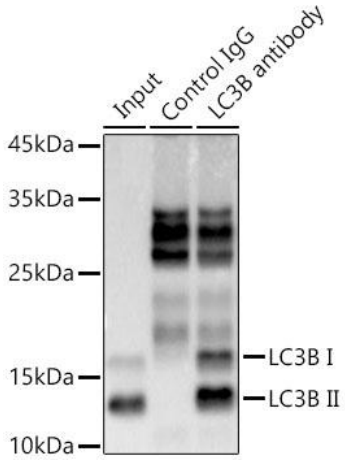
Immunohistochemistry analysis of paraffin-embedded Rat brain using [KD Validated] LC3B Rabbit mAb (CAB19665) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of HeLa cells (treated with Chloroquine) and HeLa cells (untreated) using [KD Validated] LC3B Rabbit mAb (CAB19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, 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 (CAB19665, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunoprecipitation analysis of 300 µg extracts from 293T cells using 3 µg [KD Validated] LC3B Rabbit mAb (CAB19665). Western blot was performed from the immunoprecipitate using LC3B antibody (CAB19665) at a dilution of 1:1000.