

Product Datasheet

LC3B Antibody (1251D) - Azide and BSA Free NBP2-80830

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-80830

LC3B Antibody (1251D) - Azide and BSA Free

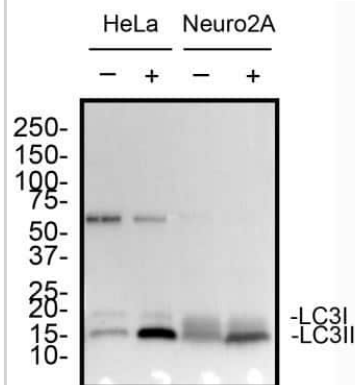
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1251D
Preservative	No Preservative
Isotype	IgG
Purity	Protein A or G purified
Buffer	PBS
Target Molecular Weight	14.688 kDa

Product Description	
Host	Rabbit
Gene ID	81631
Gene Symbol	MAP1LC3B
Species	Human, Mouse, Rat
Immunogen	Recombinant monoclonal LC3B Antibody (1251D) was made to a synthetic peptide made to an N-terminal portion of the human LC3B protein sequence (between residues 1-100). [Uniprot: Q9GZQ8].

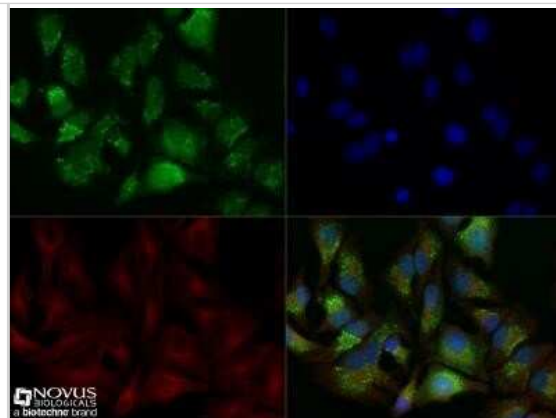
Product Application Details	
Applications	Western Blot, Simple Western, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Simple Western 5 ug/ml, Immunohistochemistry 2 - 5ug/ml, Immunocytochemistry/ Immunofluorescence 5 ug/ml, Immunohistochemistry-Paraffin 2 - 5ug/ml, Flow (Intracellular) 1 ug/ml, Knockout Validated
Application Notes	Western blot bands are seen at ~19 kDa, representing LC3-I, and ~17 kDa, representing LC3-II.

Images

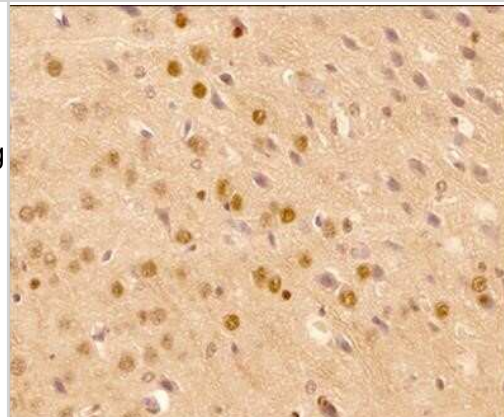
Western Blot: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830] - Total protein from HeLa and Neuro2A cells treated with or without 50 uM chloroquine for 24 hrs was separated on a 4-15% gel by SDS-PAGE, transferred to 0.2 um PVDF (Polyvinylidene difluoride) membrane and blocked in 5% non-fat milk in TBST (Tris-buffered saline, 0.1% Tween 20). The membrane was probed with 2.0 ug/ml anti-LC3B Antibody (1251d) [Catalog # NBP2-59800] in blocking buffer and detected with an anti-rabbit HRP secondary antibody using chemiluminescence. Note the detection of LC3I and LC3II at a molecular weight of approximately 15 kDa. Image from the standard format of this antibody.



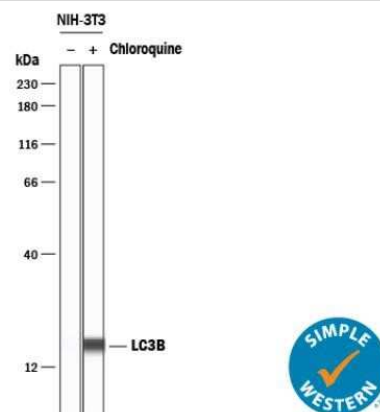
Immunocytochemistry/Immunofluorescence: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830] - HeLa cells were treated with 50uM CQ (Chloroquine) overnight, fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-LC3B (1251d) [Catalog # NBP2-59800] at 5 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



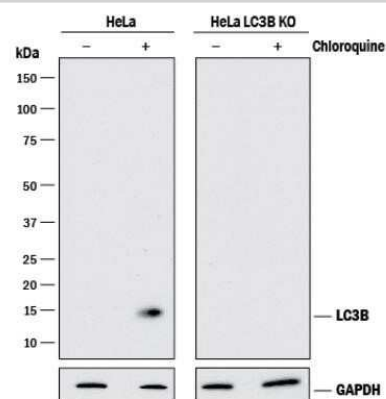
Immunohistochemistry-Paraffin: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830] - Analysis of a FFPE (Formalin-Fixed Paraffin-Embedded) tissue section of mouse brain using anti-LC3B antibody (clone 1251D) [Catalog # NBP2-59800] at 5ug/ml concentration (1:200 dilution). The primary antibody binding to LC3 in cells was detected using HRP



Simple Western: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830] - Lane view shows lysates of NIH-3T3 mouse embryonic fibroblast cell line untreated (-) or treated (+) with 50 uM Chloroquine for 18 hrs, loaded at 0.2 mg/ml. A specific band was detected for LC3B at approximately 17 kDa (as indicated) using 5 ug/mL of Rabbit Anti-Human LC3B Monoclonal Antibody (1251D) [Catalog# NBP2-59800]. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Image from the standard format of this antibody.



Knockout Validated: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830] - HeLa human cervical epithelial carcinoma parental cell line and LC3B knockout HeLa cell line (KO) untreated (-) or treated (+) with 50 uM Chloroquine for 18 hrs. PVDF membrane was probed with 0.1 ug/mL of Rabbit Anti-LC3B Monoclonal Antibody (1251D) [Catalog# NBP2-59800] followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog# HAF008). A specific band was detected for LC3B at approximately 15 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. GAPDH (Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions. Image from the standard format of this antibody.





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Products Related to NBP2-80830

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-2220PEP	LC3B Antibody Blocking Peptide

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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