

# 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.

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



[technical@novusbio.com](mailto:technical@novusbio.com)

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-80830](http://www.novusbio.com/NBP2-80830)

Updated 9/9/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-80830](http://www.novusbio.com/reviews/destination/NBP2-80830)



**NBP2-80830**

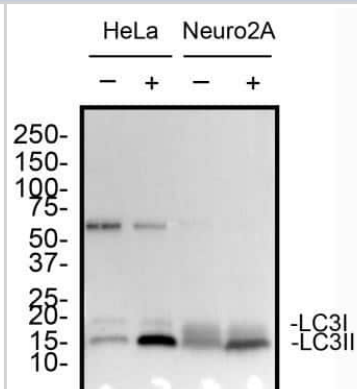
LC3B Antibody (1251D) - Azide and BSA Free

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	
Description	Novus Biologicals Knockout (KO) Validated Rabbit LC3B Antibody (1251D) - Azide and BSA Free (NBP2-59800) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and Simple Western. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, 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.

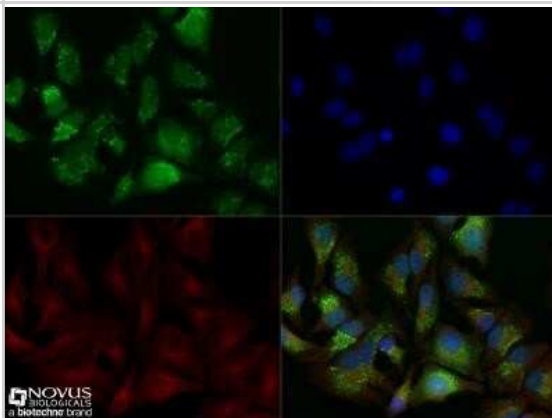


## Images

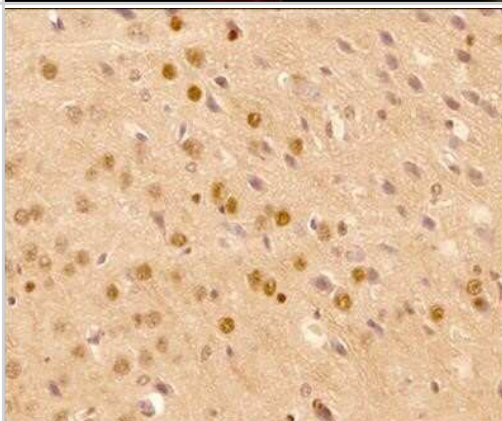
**Western Blot: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830]** - Total protein from HeLa and Neuro2A cells treated with or without 50 uM chloroquine for 24 hrs was separated on a 4-15% gel by SDS-PAGE, transferred to 0.2 um PVDF (Polyvinylidene difluoride) membrane and blocked in 5% non-fat 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.



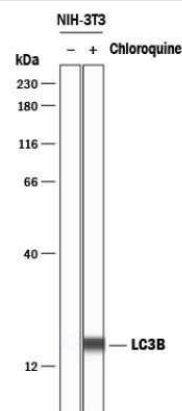
**Immunocytochemistry/Immunofluorescence: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830]** - HeLa cells were treated with 50uM CQ (Chloroquine) overnight, fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with 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.



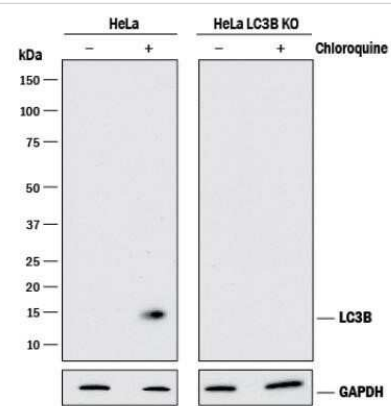
**Immunohistochemistry-Paraffin: LC3B Antibody (1251D) - Azide and BSA Free [NBP2-80830]** - Analysis of a FFPE (Formalin-Fixed Paraffin-Embedded) tissue section of mouse brain using anti-LC3B antibody (clone 1251D) [Catalog # NBP2-59800] at 5ug/ml concentration (1:200 dilution). The primary antibody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



Western Blot: 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  $\mu$ M Chloroquine for 18 hrs. PVDF membrane was probed with 0.1  $\mu$ g/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.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **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

---

### **Limitations**

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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-80830](http://www.novusbio.com/reviews/submit/NBP2-80830)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

