

# Product Datasheet

## LC3 Antibody Pack NBP2-59703

Unit Size: 3 Vials

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

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**NBP2-59703**

## LC3 Antibody Pack

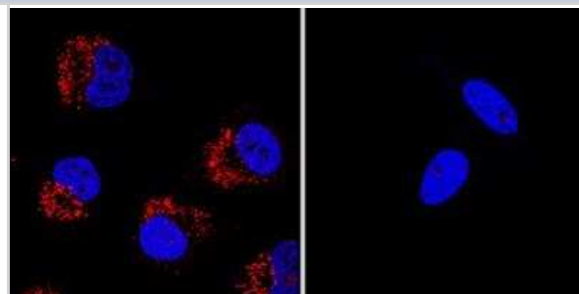
Product Information	
<b>Unit Size</b>	3 Vials
<b>Concentration</b>	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Buffer</b>	PBS

Product Description	
<b>Description</b>	This pack contains 1 vial each of: NB100-2220SS (25 uL), NBP2-46892SS (25 ug).
<b>Gene ID</b>	81631
<b>Gene Symbol</b>	MAP1LC3B
<b>Species</b>	Human, Mouse, Rat, Rabbit
<b>Reactivity Notes</b>	See individual datasheets of components for their validated species
<b>Immunogen</b>	See individual datasheets.
<b>Kit Components</b>	NBP2-46892SS, NB100-2220SS, HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP]

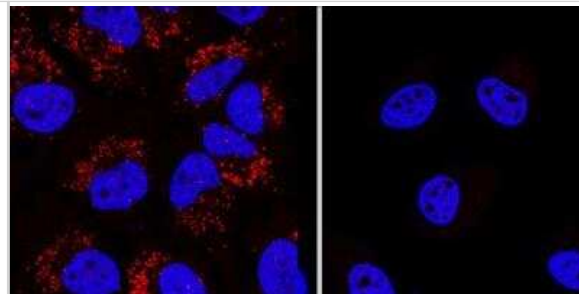
Product Application Details	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Knockout Validated
<b>Application Notes</b>	See individual datasheets of components for their validated applications

**Images**

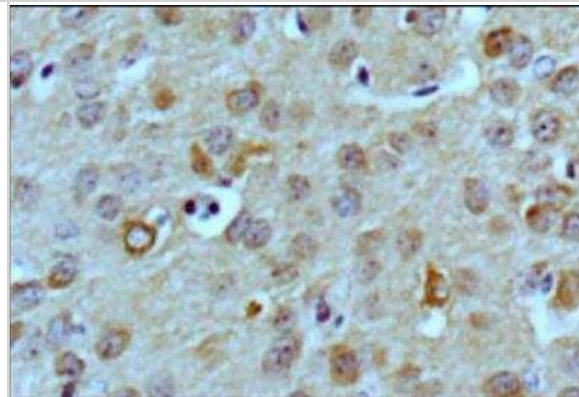
Knockout Validated: LC3 Antibody Pack [NBP2-59703] - LC3B was detected in immersion fixed Chloroquine treated HeLa cells (left) but was not detected in LC3B knockout HeLa cells (right) using rabbit anti-human LC3B monoclonal antibody (1251A) [Catalog #NBP2-46892] at 0.3 ug/mL for 3 hours at room temperature. Cells were stained using the NorthernLights(TM) 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm.



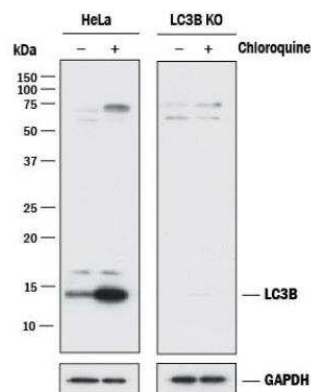
Knockout Validated: LC3 Antibody Pack [NBP2-59703] - LC3B was detected in immersion fixed Chloroquine treated HeLa cells (left) but was not detected in LC3B knockout HeLa cells (right) using rabbit anti-human LC3B polyclonal antibody (Catalog #NB100-2220) at 0.3 ug/mL for 3 hours at room temperature. Cells were stained using the NorthernLights (TM) 557-conjugated anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm.



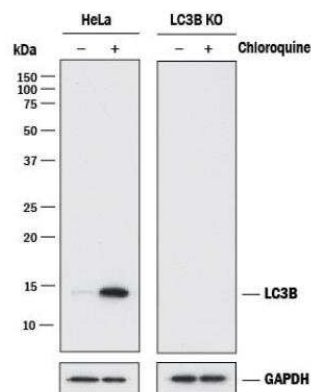
Immunohistochemistry: LC3 Antibody Pack [NBP2-59703] - IHC (Immunohistochemical) analysis of a formalin fixed and paraffin embedded tissue section of normal mouse brain using rabbit monoclonal LC3B (1251A) antibody [Catalog # NBP2-46892] at 1:100 dilution with HRP-DAB detection. The antibody generated a weak diffused cytoplasmic staining in most of the cells but some cells, especially within empty areas on the section, showed punctate signal also which signifies the presence of autophagy in those areas.



Knockout Validated: LC3 Antibody Pack [NBP2-59703] - Lysates of HeLa parental cell line and LC3B knockout HeLa cell line (KO) untreated (-) or treated (+) with 50 uM Chloroquine for 18 hours. PVDF (Polyvinylidene difluoride) membrane was probed with 0.5 ug/mL of Rabbit Anti-LC3B Polyclonal Antibody (Catalog # NB100-2220) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog# HAF008). A specific band was detected for LC3B at a molecular weight of approximately 15 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. GAPDH is shown as a loading control. This experiment was conducted under reducing conditions.



Knockout Validated: LC3 Antibody Pack [NBP2-59703] - Western Blot analysis shows lysates of HeLa human cervical epithelial carcinoma parental cell line and LC3B knockout HeLa cell line (KO) untreated (-) or treated (+) with 50 uM Chloroquine for 18 hours. PVDF (Polyvinylidene difluoride) membrane was probed with 2.0 ug/mL of Rabbit Anti-Human/Mouse/Rat LC3B Monoclonal Antibody (1251A) [Catalog # NBP2-46892] followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog# HAF008). A specific band was detected for LC3B at a molecular weight of approximately 15 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. GAPDH is shown as a loading control. This experiment was conducted under reducing conditions.



## Publications

Zhou K, Cheong JE, Tarakkad Krishnaji S et al. Inhibition of Wnt signaling in colon cancer cells via an oral drug that facilitates TNK1 degradation Molecular cancer therapeutics 2022-10-27 [PMID: 36302395] (WB)



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### **Products Related to NBP2-59703**

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NBP3-21266PEP	LC3 Recombinant Protein Antigen
H00008878-M01	p62/SQSTM1 Antibody (2C11)
NBP3-21266-100ul	LC3 Antibody
AF835	Caspase-3 Antibody [Unconjugated] - Active

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### **Limitations**

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

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