

# Product Datasheet

## LC3B Antibody [HRP] NB100-2220H

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB100-2220H**

LC3B Antibody [HRP]

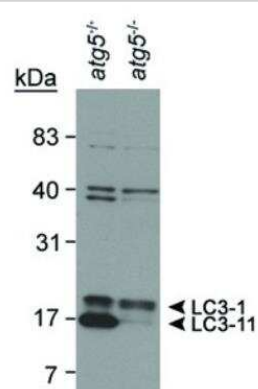
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Conjugate	HRP
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	14.688 kDa
Product Description	
Host	Rabbit
Gene ID	81631
Gene Symbol	MAP1LC3B
Species	Human, Mouse, Rat, Porcine, Alligator, Avian, Bacteria, Bovine, Canine, Chicken, Chinese Hamster, Guinea Pig, Hamster, Invertebrate, Monkey, Primate, Rabbit, Golden Syrian Hamster, Zebrafish
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34622072). Use in Chinese Hamster reported in scientific literature (PMID:34332287). Mouse reactivity reported in scientific literature (PMID:32814898). Bovine reactivity reported in scientific literature (PMID: 24895572). Primate reactivity reported in scientific literature (PMID: 25142602). Canine reactivity reported in scientific literature (PMID: 25839646). Avian reactivity reported in scientific literature (PMID: 29546310). Hamster reactivity reported in scientific literature (PMID: 26423766). Rabbit reactivity reported in scientific literature (PMID: 26497211). The mouse detection has been reported to be weaker than the human. Immunogen displays the following percentage of sequence identity for non-tested species: Xenopus 84%. Invertebrate reactivity reported in scientific literature (PMID: 26716072 ). Monkey reactivity reported in scientific literature (PMID: 30324853). Guinea pig reactivity reported from a verified customer review. Rat reactivity reported in scientific literature (PMID: 30744518). Bacteria reactivity reported in scientific literature (PMID: 28783414). Chicken reactivity reported in scientific literature (PMID: 30649814). Porcine reactivity reported in scientific literature (PMID: 30789643). Golden Syrian hamster reactivity reported in scientific literature (PMID: 23180219). Zebrafish reactivity reported in scientific literature (PMID: 29185873). Human reactivity reported in scientific literature (PMID:33086573). Use in Alligator reported in scientific literature (PMID:32061056).
Marker	Autophagosome Marker
Immunogen	Polyclonal LC3B Antibody 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	



<b>Applications</b>	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, SDS-Page, Proximity Ligation Assay, Chromatin Immunoprecipitation (ChIP), Knockdown Validated, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot, Simple Western, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Immunoblotting, Proximity Ligation Assay, SDS-Page, Chromatin Immunoprecipitation (ChIP), Knockout Validated, Knockdown Validated
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.

## Images

Detection of LC3 in mouse ES cell lysates using NB 100-2220. Atg5<sup>-/-</sup> ES cells from Dr. Noboru Mizushima [Mizushima, N. et al. J. Cell Biol. 152 (2001)] Photo courtesy of Dr. Beth Levine, UT Southwestern Medical Center.



## Publications

Zhang R, Li SW, Liu L et al. TRIM11 facilitates chemoresistance in nasopharyngeal carcinoma by activating the beta-catenin/ABCC9 axis via p62-selective autophagic degradation of Daple Oncogenesis 2020-05-07 [PMID: 32382014]

Ben Salem I, Boussabbeh M, Pires Da Silva J et al. Effects of Dichlorvos on cardiac cells: Toxicity and molecular mechanism of action Chemosphere 2023-04-18 [PMID: 37080471] (WB, Rat)

Song J, Zhao X, Feng Y et al. Involvement of proapoptotic genes in autophagic cell death induced by irradiation Cell Death Discov. 2017-12-04 [PMID: 31098300] (WB, Human)

### Details:

Citation used the HRP format of this antibody.

Guo XL, Hu F, Wang H et al. Inhibition of autophagy in hepatocarcinoma cells promotes chemotherapeutic agent-induced apoptosis during nutrient deprivation Oncol Rep. 2018-02-01 [PMID: 29207161] (Human)

### Details:

Citation using the HRP form of this antibody.

Lee WK, Probst S, Santoyo-Sanchez MP et al. Initial autophagic protection switches to disruption of autophagic flux by lysosomal instability during cadmium stress accrual in renal NRK-52E cells. Arch Toxicol 2017-03-20 [PMID: 28321485]

Ben Salem I, Boussabbeh M, Da Silva JP et al. SIRT1 protects cardiac cells against apoptosis induced by zearalenone or its metabolites alpha- and beta-zearalenol through an autophagy-dependent pathway. Toxicol. Appl. Pharmacol. 2016-11-23 [PMID: 27889531] (WB, Rat)

### Details:

This citation used the HRP version of this antibody.

Benhamron S, Pattanayak Sp, Berger M, Tirosh B. mTOR activation promotes plasma cell differentiation and bypasses XBP-1 for immunoglobulin secretion. Mol Cell Biol 2014-10-20 [PMID: 25332234] (WB, Mouse)

### Details:

Using the HRP conjugated version of NB100-2220, catalog number NB100-2220H.

Song YJ, Zhang SS, Guo XL et al. Autophagy contributes to the survival of CD133+ liver cancer stem cells in the hypoxic and nutrient-deprived tumor microenvironment. Cancer Lett 2013-07-20 [PMID: 23879969] (WB, Human)

### Details:

Using the HRP conjugated version of NB500-249, catalog number NB500-249H.

Song J, Qu Z, Guo X et al. Hypoxia-induced autophagy contributes to the chemoresistance of hepatocellular carcinoma cells. Autophagy 2009-11-01 [PMID: 19786832] (WB, Human)

### Details:

Using the HRP conjugated version of NB500-249, catalog number NB500-249H.

Guo X, Li D, Hu F et al. Targeting autophagy potentiates chemotherapy-induced apoptosis and proliferation inhibition in hepatocarcinoma cells. Cancer Lett 2012-07-28 [PMID: 22406827] (WB, Human)

### Details:

Using the HRP conjugated version of NB100-2220, catalog number NB100-2220H.





### **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 NB100-2220H**

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NBP2-24891H	Rabbit IgG Isotype Control [HRP]
NB100-2220B	LC3B Antibody [Biotin]
NB100-2220PEP	LC3B Antibody Blocking Peptide
NB600-1384PEP	LC3B Antibody Blocking Peptide

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### **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.

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