

# Product Datasheet

## LC3B Antibody [Alexa Fluor® 488] NB600-1384AF488

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB600-1384AF488**

LC3B Antibody [Alexa Fluor® 488]

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	0.05% Sodium Azide
Isotype	IgG
Conjugate	Alexa Fluor 488
Purity	Immunogen affinity purified
Buffer	50mM Sodium Borate
Target Molecular Weight	14.688 kDa

Product Description	
Host	Rabbit
Gene ID	81631
Gene Symbol	MAP1LC3B
Species	Human, Mouse, Rat, Porcine, Bacteria, Bovine, Canine, Primate, Yeast, Zebrafish
Reactivity Notes	Use in Yeast reported in scientific literature (PMID:35247568). Use in Rat reported in scientific literature (PMID:34499623). Mouse reactivity reported in scientific literature (PMID:32802192). Zebrafish reactivity reported in scientific literature (PMID: 23724125). . Canine and primate reactivity reported in scientific literature (PMID: 24027311). Porcine reactivity reported in scientific literature (PMID: 25378587). . Rat reactivity reported in scientific literature (30067379). . Bacteria reactivity reported in scientific literature (31110360). . Bovine reactivity reported in scientific literature (21868124). . Other species have not been tested.
Marker	Autophagosome Marker
Immunogen	Polyclonal LC3B Antibody was made to a synthetic peptide made to the N-terminal region of the human LC3B protein. [Uniprot: Q9GZQ8]
Notes	Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@lifetech.com">outlicensing@lifetech.com</a> . This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

**Product Application Details**

<b>Applications</b>	Western Blot, Simple Western, Electron Microscopy, Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Immunohistochemistry Free-Floating, Knockdown Validated, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot, Simple Western, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Immunoblotting, Electron Microscopy, Immunohistochemistry Free-Floating, Knockout Validated, Knockdown Validated
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.

## Publications

Mitsui, K;Hishiyama, S;Jain, A;Kotoda, Y;Abe, M;Matsukawa, T;Kotoda, M; Role of macrophage autophagy in postoperative pain and inflammation in mice Journal of neuroinflammation 2023-05-02 [PMID: 37131209]

Mercier AE, Prudent R, Pepper MS et al Characterization of Signalling Pathways That Link Apoptosis and Autophagy to Cell Death Induced by Estrone Analogues Which Reversibly Depolymerize Microtubules Molecules 2021-02-12 [PMID: 33572896] (FLOW, Human)

### Details:

Citation using the Alexa Fluor 488 version of this antibody.

Zhou M, Wen Z, Cheng F et al. Tumor-released autophagosomes induce IL-10-producing B cells with suppressive activity on T lymphocytes via TLR2-MyD88-NF-kappa B signal pathway Oncoimmunology. 2016-05-12 [PMID: 27622036] (FLOW, Human)

Gao R, Ma J, Wen Z et al. Tumor cell-released autophagosomes (TRAP) enhance apoptosis and immunosuppressive functions of neutrophils Oncoimmunology. 2018-03-06 [PMID: 29872581] (WB, Mouse, Human)

### Details:

Citation used the Alexa Fluor 488 format of this antibody.

Das LM, Binko AM, Traylor ZP et al. Vitamin D improves sunburns by increasing autophagy in M2 macrophages Autophagy. 2019-05-15 [PMID: 30661440] (FLOW, Mouse)

### Details:

Citation using the Alexa Fluor 488 form of this antibody.



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### **Products Related to NB600-1384AF488**

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NBP2-24982	Rabbit IgG Isotype Control [Alexa Fluor® 488]
NB600-1384AF647	LC3B Antibody [Alexa Fluor® 647]
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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