

Datasheet: AHP2167T

### **BATCH NUMBER 1608**

Description:	RABBIT ANTI HUMAN MAP1LC3A/B (N-TERMINAL)		
Specificity:	MAP1LC3A/B (N-TERMINAL)		
Other names:	Atg8-LC3		
Format:	Purified		
Product Type:	Polyclonal Antibody		
Isotype:	Polyclonal IgG		
Quantity:	25 μg		

# **Product Details**

### **Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			•	
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation			•	
Western Blotting				1/1000 - 1/5000
Immunofluorescence				

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse  N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid

Antiserum Preparation Antiserum to human LC3A was raised by repeated immunisation of rabbits with highly

purified antigen.	Purified IaG wa	as prepared b	v affinit\	chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> )
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide sequence PSDRPFKQRRSFADC from the N-Terminal region of LC3A (NP_115903.1; NP_852610.1).
External Database Links	UniProt:  Q9H492 Related reagents Q9GZQ8 Related reagents Q91VR7 Related reagents Q9CQV6 Related reagents  Entrez Gene:  84557 MAP1LC3A Related reagents 81631 MAP1LC3B Related reagents 66734 Map1lc3a Related reagents 67443 Map1lc3b Related reagents
Synonyms	Map1alc3, MAP1ALC3, Map1lc3
RRID	AB_10673306
Specificity	Rabbit anti Human MAP1LC3A/B (N-Terminal) antibody specifically recognizes an epitope within the N-Terminal (NT) region of both MAP1LC3A (Microtubule-associated proteins 1A/1B light chain 3A/LC3A) and MAP1LC3B (Microtubule-associated proteins 1A/1B light chain 3B/LC3B), ubiquitin-like proteins and members of the MAP1LC3 family, which are widely used as reliable markers for the monitoring of autophagy.  LC3-I is the cytosolic form of LC3, which is converted into the active, membrane-bound form LC3-II, during the autophagy process. Tracking the level of conversion of LC3-I to LC3-II provides an indicator of autophagic activity, and levels of LC3-II in particular, correlate with the extent of autophagosome formation, due to its association with the autophagosome membrane.  Rabbit anti Human MAP1LC3A/B (N-Terminal) antibody recognizes both the LC3-I and LC3-II forms of MAP1LC3A and MAP1LC3B.
Western Blotting	AHP2167T detects a band of approximately 14-15kDa corresponding to LC3-II, and a band of approximately 17kDa corresponding to LC3-I, in HeLa cell lysates.

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- 1. Iwata, A. et al. (2005) HDAC6 and microtubules are required for autophagic degradation of aggregated huntingtin. J Biol Chem. 280 (48): 40282-92.
- 2. Riley, B.E. et al. (2010) Ubiquitin accumulation in autophagy-deficient mice is dependent on the Nrf2-mediated stress response pathway: a potential role for protein aggregation in autophagic substrate selection. J Cell Biol. 191 (3): 537-52.
- 3. Gjyshi, O. et al. (2015) Kaposi's Sarcoma-Associated Herpesvirus Induces Nrf2 Activation in Latently Infected Endothelial Cells through SQSTM1 Phosphorylation and Interaction with Polyubiquitinated Keap1. J Virol. 89: 2268-86
- 4. Huang, L. et al. (2014) AKI after conditional and kidney-specific knockdown of stanniocalcin-1. J Am Soc Nephrol. 25: 2303-15.
- 5. Girard, B.J. et al. (2015) Cytoplasmic PELP1 and ERRgamma Protect Human Mammary Epithelial Cells from Tam-Induced Cell Death. PLoS One. 10 (3): e0121206.

**Storage** 

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety** Information

Material Safety Datasheet documentation #10040 available at:

https://www.bio-rad-antibodies.com/SDS/AHP2167T

10040

Regulatory

For research purposes only

### Related Products

# **Recommended Secondary Antibodies**

Sheep Anti Rabbit IgG (STAR34...) FITC

Goat Anti Rabbit IgG (Fc) (STAR121...) Biotin, FITC, HRP

Sheep Anti Rabbit IgG (STAR35...)

Goat Anti Rabbit IgG (H/L) (STAR124...) HRP

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M373279:200907'

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