

## Datasheet: MCA6341

<b>Description:</b>	RABBIT ANTI MAP1LC3B
<b>Specificity:</b>	MAP1LC3B
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM293
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 ml

## 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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/100 - 1/200
Western Blotting	▪			1/100 - 1/200
Immunocytochemistry	▪			1/100 - 1/200

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

Based on sequence similarity, is expected to react with: Mouse, Rat

**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

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from animal origin-free culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide

1% Bovine Serum Albumin  
50% Glycerol

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**Immunogen** A peptide corresponding to the N-terminus of human MAP1LC3

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**External Database**

**Links**

**UniProt:**

[Q9GZQ8](#) [Related reagents](#)

**Entrez Gene:**

[81631](#) MAP1LC3B [Related reagents](#)

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**Synonyms** MAP1ALC3

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**Specificity** **Rabbit anti MAP1LC3B antibody** recognizes microtubule-associated proteins 1A/1B light chain 3B, also known as autophagy-related protein LC3B.

MAP1LC3B is a key protein in autophagy and is essential for autophagosome elongation ([Liu et al. 2018](#)). During autophagy, the carboxy terminus of MAP1LC3B is cleaved to produce LC3-I in the cytoplasm. LC3-I is then lipidated, resulting in LC3-II which binds to autophagic vesicles. Presence of LC3-II in autophagosomes is an indicator of autophagy. Therefore, changes in the location and abundance of these proteins can be used to study autophagy ([Tang et al. 2019](#)). MAP1LC3B has been found to be activated in solid tumors and is associated with tumor progression ([Kang et al. 2019](#)).

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**Storage** Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10048 available at:  
10048: <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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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](https://bio-rad-antibodies.com/datasheets)

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