



## Rabbit antibody to MAP1LC3A : whole serum

<b>Catalogue No.:</b>	R-146-100
<b>Description:</b>	MAP1A and MAP1B are microtubule-associated protein which mediate the physical interactions between microtubules and components of the cytoskeleton (probably involved in autophagosome formation). MAP1A and MAP1B each consist of a heavy chain subunit and 3 different light chain subunits (LC1, LC2 and LC3). MAP1LC3A is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor form of MAP1LC3A is cleaved by APG4/ATG4B to form the cytosolic form LC3-1. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II. MAP1LC3A is most abundant in heart, brain, liver, skeletal muscle and testis but is absent in thymus and peripheral leukocytes.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 µl
<b>Antigen:</b>	A synthetic peptide (RSFADRCKEVQQI) corresponding to the N-terminal of human MAP1LC3 A protein conjugated to Blue Carrier Protein has been used as the immunogen. The sequence is homologous with mouse and rat MAP1LC3 A.
<b>Other Names:</b>	Microtubule-associated proteins 1A/1B light chain 3A; MAP1A/MAP1B LC3 A; MAP1A/1B light chain 3 A; MAP1 light chain 3-like protein 1; Microtubule-associated protein 1 light chain 3 alpha; Autophagy-related protein LC3 A; Autophagy-related ubiquitin-like modifier LC3 A; APG8a; MAP1LC3A
<b>Accession:</b>	MLP3A_HUMAN MLP3A_MOUSE MLP3A_RAT
<b>Produced in:</b>	Rabbit
<b>Molecular Weight:</b>	~20 kDa uncleaved, 14-18kDa cleaved, SDS-PAGE
<b>Purity:</b>	Whole serum
<b>Applications:</b>	IHC, immunohistochemistry on 4% PFA fixed or 2% PLP fixation, 1:100-1000 primary antibody dilution. IC, Immunocytochemistry: acetone fixed specimens recommended. 1:100-1:1000 primary antibody dilution. Western Blot: R-146-100 requires samples to be denatured ONLY by boiling in SDS solution, not reduced. No signal is achieved using reduced samples. (Samples treated with DTT or Beta mercaptoethanol). 1:500 overnight 4 degrees is recommended for primary antibody dilution in western blots. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	IHC, WB and ELISA confirmed the specificity for MAP1LC3 A.
<b>Cross-reactivity:</b>	Human, rat. Other species not yet tested.
<b>Form:</b>	Lyophilised
<b>Reconstitution:</b>	Reconstitute in 100 µl of sterile water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	After reconstitution keep aliquots at -20°C for higher stability, and at 4°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive

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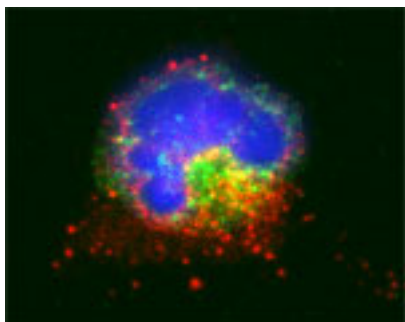


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freeze/thaw cycles.

**Expiry Date:** 12 months after purchase

**References:** 1. The MGC Project Team. Genome Res. 14:2121-2127(2004)



Confocal microscopy on immunofluorescently detected MAP1LC3 A in cytopsin-isolated human white blood cells using Rabbit antibody to MAP1LC3 A : whole serum (R-146-100) at a dilution of 1: 200, incubated for 1 h at room temperature. The cells were double-stained for MAP1LC3 A appearing in red and MHC class II appearing in green. The cells were counter stained with Hoechst Dye (blue colour). Here, the merged picture is presented.

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