

LC3B Antibody

Tested Species Reactivity	
Bovine (Bv)	
Canine (Ca)	
Human (Hu)	
Mouse (Ms)	
Non-human primate (Nhp)	
Rat (Rt)	
Zebrafish (Zf)	

Details	
Catalog Number:	PA1-46286
Size:	100 µl
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit /
Immunogen:	N-terminal region of the human LC3, isoform B protein.

Tested Applications	Dilution *
Western Blot (WB)	1:1000
Immunofluorescence (IF)	0.1-2 µg/ml
Immunocytochemistry (ICC)	0.1-2 µg/ml
Immunohistochemistry (Frozen) (IHC (F))	1:400
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:400
Flow Cytometry (FACS)	1:200
Immunomicroscopy (IM)	Assay-Dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Product Specific Information

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

General Information

Autophagy is a process of intracellular bulk degradation in which cytoplasmic components, including organelles, are sequestered within double-membrane vesicles that deliver the contents to the lysosome/vacuole for degradation. During macroautophagy, the sequestering vesicles, termed autophagosomes, fuse with the lysosome or vacuole resulting in the delivery of an inner vesicle (autophagic body) into the lumen of the degradative compartment. There are 16 proteins participating in the autophagy pathway in humans. The autophagy protein LC3, a mammalian homologue of Atg8, was originally identified as microtubule-associated protein 1 light chain 3. It is a component of both the MAP1A and MAP1B microtubule-binding domains and the heavy-chain independent regulation of LC3 expression may modify MAP1 microtubule-binding activity during development. LC3 is the only known mammalian protein identified that stably associates with the autophagosome membranes. LC3-I is cytosolic and LC3-II is membrane bound and enriched in the autophagic vacuole fraction. The detection of LC3-I to LC3-II conversion is a useful and sensitive marker for distinguishing autophagy in mammalian cells.

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