

LC3A/LC3B Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Dog, Fish, Human, Mouse, Plant, Rat, Zebrafish
Published Species	Rat, Fish, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to a region between residues 25-121 of human LC3 protein.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.02% sodium azide
Storage conditions	-20°C or -80°C if preferred
RRID	AB_2137583

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	17 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:400	-
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:100-1:300	4 Publications
Flow Cytometry (Flow)	Assay-Dependent	-
ELISA (ELISA)	Assay-Dependent	-
Immunoprecipitation (IP)	20 µg/500 µg of lysate	-
ChIP assay (ChIP)	Assay-Dependent	-

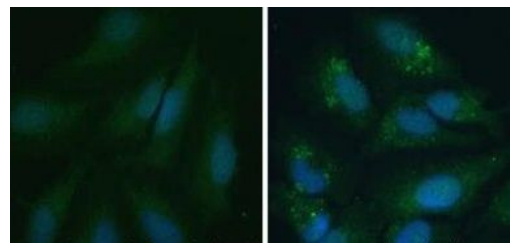
Product Specific Information

This antibody detects both LC3A and LC3B. Western blot bands are seen at ~19 kDa, representing LC3-I, and ~17 kDa, representing LC3-II. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

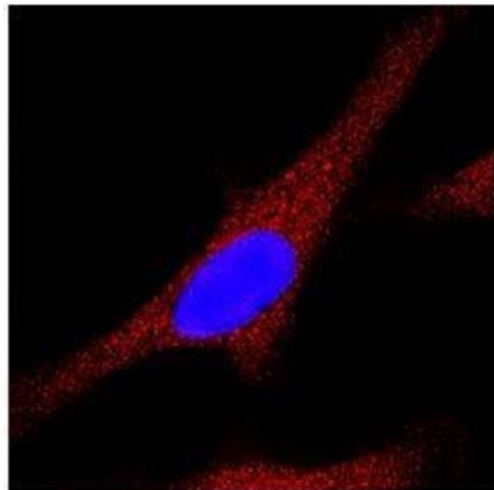
Recommended positive controls: LC3B overexpression lysate, mouse brain whole tissue lysate (adult whole normal), human brain whole tissue lysate (adult whole normal), Neuro2a whole cell lysate, Neuro2a Chloroquine-treated/untreated cell lysate, HeLa chloroquine-treated/untreated cell lysate

This antibody is predicted to react with Bovine based on 100% sequence homology.

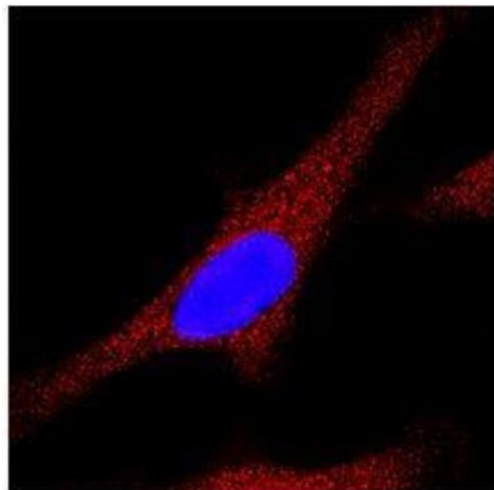
Product Images For LC3A/LC3B Polyclonal Antibody



LC3A/LC3B Antibody (PA1-16931) in ICC/IF
Immunofluorescent analysis of LC3 in untreated HeLa cells (left panel) and HeLa cells treated with 50µM CQ overnight (right panel). Cells were fixed for 10 min using 10% formalin and permeabilized for 5 min using 1X PBS with 0.05% Triton X-100. Cells were incubated with anti-LC3 polyclonal antibody (Product # PA1-16931) at 5 µg/mL overnight at 4°C, followed by detection using an anti-mouse DyLight 488 (Green) at a dilution of 1:500. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X magnification.



LC3A/LC3B Antibody (PA1-16931) in ICC/IF
Immunocytochemistry analysis of LC3A/LC3B in HeLa cells. Samples were incubated in LC3A/LC3B polyclonal antibody (Product # PA1-16931). Antibody (red). Nuclei were counterstained with DAPI (blue).



LC3A/LC3B Antibody (PA1-16931) in ICC/IF
Immunofluorescent analysis of LC3 in HeLa cells (red) using anti-LC3 polyclonal antibody (Product # PA1-16931). Nuclei were counterstained with DAPI (blue).

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Western Blot (17)

Frontiers in pharmacology	Year 2023
Mingmu Xiaoyao granules regulate the PI3K/Akt/mTOR signaling pathway to reduce anxiety and depression and reverse retinal abnormalities in rats.	Species Mouse
"PA1-16931 was used in Western Blotting to show that MMXY may effectively improve retinal morphology and function as well as anxiety and depression-like behaviors in CUMS rats by regulating the PI3K/Akt/mTOR signaling pathway."	
Authors: Ma Q,Zhou J,Yang Z,Xue Y,Xie X,Li T,Yang Y	
Frontiers in pharmacology	Year 2022
Penta-O-Galloyl--D-Glucose in <i>Pistacia integerrima</i> Targets AMPK-ULK1 and ERK/STAT3 Signaling Axes to Induce ROS-Independent Autophagic Cell Death in Human Lung Cancer Cells.	Species Human
"PA1-16931 was used in Western Blotting to propose PGG as a potential AMPK activator and STAT3 inhibitor that can be exploited further in developing adjuvant chemotherapeutics against lung cancer."	
Authors: Balkrishna A,Mulay VP,Verma S,Srivastava J,Lochab S,Varshney A	

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (2)

Journal of clinical medicine	Year 2023
Diets Differently Regulate Tumorigenesis in Young E0771 Syngeneic Breast Cancer Mouse Model.	
"Published figure using LC3A/LC3B polyclonal antibody (Product # PA1-16931) in Immunohistochemistry"	
Authors: Thangavel H,Lizardo K,Dhanyalayam D,De Assis S,Nagajyothi JF	
Antioxidants & redox signaling	Year 2014
Mitochondrial translocation of p53 modulates neuronal fate by preventing differentiation-induced mitochondrial stress.	Species Human
"PA1-16931 was used in immunocytochemistry and western blot to study the role of p53 mitochondrial translocation in modulating mitochondrial stress induced by differentiation and the significance for neuronal cell fate"	
Authors: Xavier JM,Morgado AL,Solá S,Rodrigues CM	

More applications with references on thermofisher.cn

- IHC (PFA) (1)
- ICC/IF (4)

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