

# 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		
Туре	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**

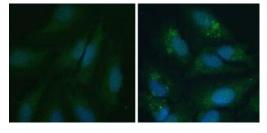
This antibody detects both LC3A and LC3B.|Western blot bands are seen at ~19 kDa, representing LC3-I, and ~17 kDa, representing LC3-II. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages,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

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## Product Images For LC3A/LC3B Polyclonal Antibody

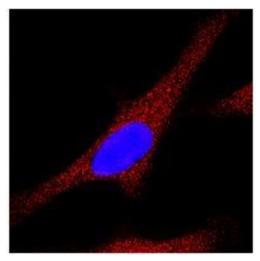


#### LC3A/LC3B Antibody (PA1-16931) in ICC/IF

Immunofluorescent analysis of LC3 in untreated HeLa cells (left panel) and HeLa cells treated with  $50\mu$ M 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  $\mu$ g/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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Authors: Xavier JM, Morgado AL, Solá S, Rodrigues CM

Authors: Thangavel H,Lizardo K,Dhanyalayam D,De Assis S,Nagajyothi JF

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

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## Western Blot (17) Frontiers in pharmacology

### Mingmu Xiaoyao granules regulate the PI3K/Akt/mTOR signaling pathway to reduce anxiety and depression and reverse retinal abnormalities in rats.

"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

## Penta-O-GalloyI--D-Glucose in Pistacia integerrima Targets AMPK-ULK1 and ERK/STAT3 Signaling Axes to Induce ROS-Independent Autophagic Cell Death in Human Lung Cancer Cells.

"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

Diets Differently Regulate Tumorigenesis in Young E0771 Syngeneic

"PA1-16931 was used in immunocytochemistry and western blot to study the role of p53 mitochondrial translocation in

"Published figure using LC3A/LC3B polyclonal antibody (Product # PA1-16931) in Immunohistochemistry"

modulating mitochondrial stress induced by differentiation and the significance for neuronal cell fate"

Year 2023

> Year 2022

> Year 2023

> Year 2014

**Species** Human

Species Human

Species Mouse

View more WB references on thermofisher.com

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Immunohistochemistry (2)

Breast Cancer Mouse Model.

Journal of clinical medicine

Antioxidants & redox signaling