

LC3B Polyclonal Antibody

Catalog Number PA5-30598

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse
Class	Polyclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 1:50-1:200
Immunogen	Full length human LC3B Recombinant protein.	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Conjugate	Unconjugated	Western Blot (WB)	1:500-1:3,000
Form	Liquid	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Concentration	0.37 mg/mL	Published Applications	
Purification	Antigen affinity chromatography	Immunocytochemistry (ICC/IF)	See 1 publications below
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

Recommended positive controls: U87-MG, Mouse brain, Rat brain. Predicted reactivity: Mouse (95%), Rat (96%), Zebrafish (93%), Japanese Medaka (93%), Xenopus laevis (95%), Pig (99%), Chicken (95%), Rhesus Monkey (100%), Chimpanzee (100%), Bovine (99%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

**Background/Target Information**

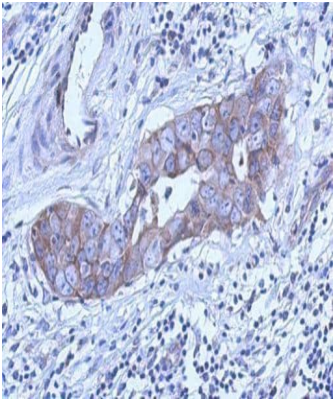
LC3B (Autophagy Marker Light Chain 3B, MAP1A/MAP1B LC3 B) in humans, is encoded by the gene MAP1LC3B (Microtubule-associated proteins 1A /1B light chain 3B). LC3B is associated with microtubule assembly and important is in neurogenesis. Recent studies indicate that LC3B plays a vital role in autophagy, a process that involves the bulk degradation of cytoplasmic component. Three human LC3 isoforms undergo post-translational modifications during autophagy. Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). LC3B is a microtubule-associated protein that mediate the physical interactions between microtubules and components of the cytoskeleton. LC3B may play a role in processes involving cancer, aging, metabolic and neurodegenerative disorders and cardiovascular/pulmonary diseases.

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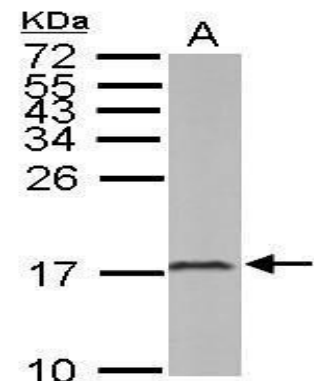
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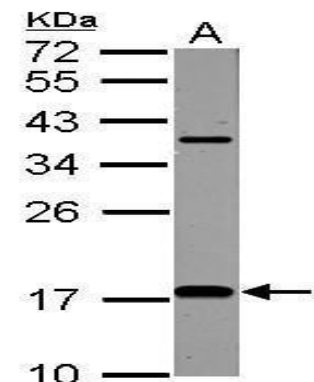
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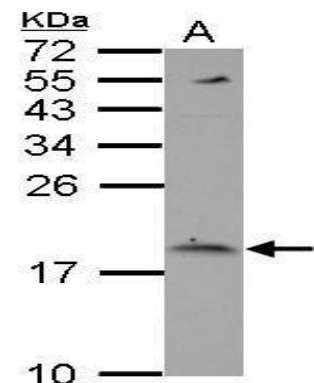
**LC3B Antibody (PA5-30598) in IHC (P)**  
Immunohistochemical analysis of paraffin-embedded human Breast carcinoma, using LC3B (Product # PA5-30598) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



**LC3B Antibody (PA5-30598) in WB**  
Western Blot using LC3B Polyclonal Antibody (Product # PA5-30598). Sample (50 µg of whole cell lysate). Lane A: mouse brain . 15% SDS PAGE. LC3B Polyclonal Antibody (Product # PA5-30598) diluted at 1:1,000.



**LC3B Antibody (PA5-30598) in WB**  
Western Blot using LC3B Polyclonal Antibody (Product # PA5-30598). Sample (50 µg of whole cell lysate). Lane A: Rat brain. 12% SDS PAGE. LC3B Polyclonal Antibody (Product # PA5-30598) diluted at 1:1,000.



**LC3B Antibody (PA5-30598) in WB**  
Western Blot using LC3B Polyclonal Antibody (Product # PA5-30598). Sample (30 µg of whole cell lysate). Lane A: U87-MG . 15% SDS PAGE. LC3B Polyclonal Antibody (Product # PA5-30598) diluted at 1:1,000.

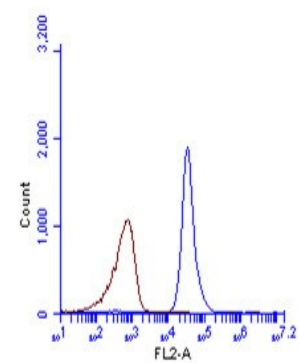
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LC3B Antibody (PA5-30598) in Flow

LC3B Polyclonal Antibody (Product # PA5-30598) detects LC3B protein by flow cytometry analysis. Sample: HeLa cell fixed in 4% paraformaldehyde at 4°C for 5 min. Brown: Unlabelled sample was also used as a control. Blue: LC3B Polyclonal Antibody (Product # PA5-30598) dilution: 1:100. Acquisition of >20,000 events were collected using Argon ion laser (488nm) and 525/30 bandpass filter.



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PubMed References For LC3B Polyclonal Antibody

1 Immunocytochemistry References

Species / Dilution	Summary
Mouse / Not Cited	<p>PA5-30598 was used in Immunocytochemistry-immunofluorescence to report that CD38 reduces CD8+ T cell function by negatively affecting mitochondrial fitness through the inhibition of multiple steps of mitophagy, in SLE.</p> <p>Science advances ( 2022; 8: ) <b>"CD38 reduces mitochondrial fitness and cytotoxic T cell response against viral infection in lupus patients by suppressing mitophagy."</b> Author(s):Chen PM,Katsuyama E,Satyam A,Li H,Rubio J,Jung S,Andrzejewski S,Becherer JD,Tsokos MG,Abdi R,Tsokos GC PubMed Article URL:<a href="http://dx.doi.org/10.1126/sciadv.abo4271">http://dx.doi.org/10.1126/sciadv.abo4271</a></p>

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