LC3B Polyclonal Antibody

Catalog No: #29075

Package Size: #29075-1 50ul #29075-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

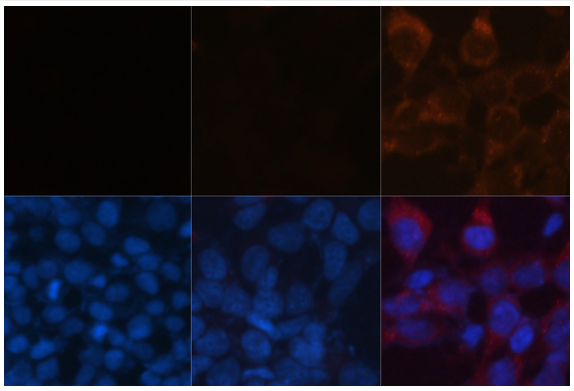
Description

Product Name	LC3B Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	A synthetic peptide of human LC3B (NP_073729.1).
Conjugates	Unconjugated
Other Names	LC3B;ATG8F;MAP1LC3B-a;MAP1A/1BLC3;MAP1LC3B;LC3A/LC3B
Accession No.	GeneID:81631Swiss Prot:Q9GZQ8
Calculated MW	14kDa
SDS-PAGE MW	14kDa/15kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 173% glycerol.
Storage	Store at -20°C. Avoid freeze / thaw cycles.|Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.126.

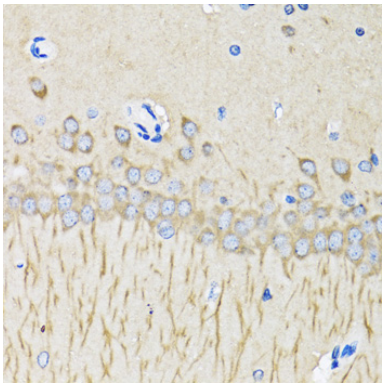
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

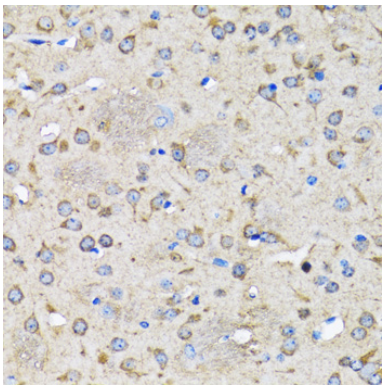
Images



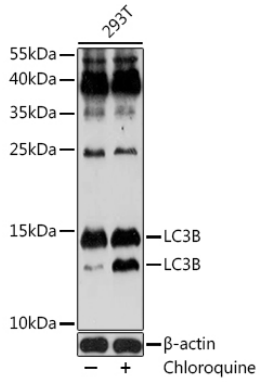
Immunofluorescence analysis of LC3B knockout 293T cells treated by chloroquine and wild-type 293T cells oΩ½oΩ½wild-type 293T cells treated by chloroquine using LC3B Rabbit pAb at dilution of 1:100. Blue: DAPI for nuclear staining.



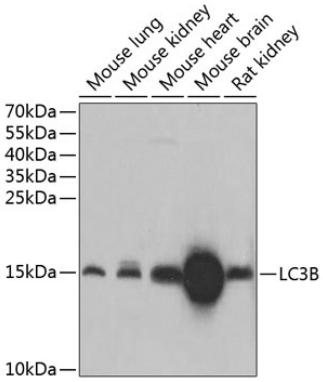
Immunohistochemistry of paraffin-embedded mouse brain using LC3B antibody at dilution of 1:100 .



Immunohistochemistry of paraffin-embedded rat brain using LC3B antibody at dilution of 1:100 .



Western blot analysis of extracts of 293T cells, using LC3B antibody at 1:1000 dilution.293T cells were treated by Chloroquine at 37oΩ½oΩ½ for 20 hours.



Western blot analysis of extracts of various cell lines, using LC3B antibody at 1:1000 dilution.

Background

The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component.

Published Papers

el at., The AMPK-dependent inhibition of autophagy plays a crucial role in protecting photoreceptor from photooxidative injury In J Photochem Photobiol B On2023 AugbyYu-Lin Li , Tian-Zi Zhang et al..PMID:37302163, , (2023)
PMID:37302156

Fan Jiang;Mingjie Xia;Yanan Zhang;Jie Chang;Jiang Cao;Zhongkai Zhang;Zhanyang Qian;Lei Yang el at., Cannabinoid receptor-2 attenuates neuroinflammation by promoting autophagy-mediated degradation of the NLRP3 inflammasome post spinal cord injury, , (2022)
PMID:36238284

Note: This product is for in vitro research use only and is not intended for use in humans or animals.