

For Research Use Only

LC3 Recombinant antibody

Catalog Number: 81004-1-RR

Featured Product

27 Publications



Basic Information

Catalog Number: 81004-1-RR	GenBank Accession Number: BC067797	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 81631	CloneNo.: 5P12
Source: Rabbit	ENSEMBL Gene ID: ENSG00000140941	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:250-1:1000 IF/ICC: 1:500-1:2000
Isotype: IgG	UNIPROT ID: Q9GZQ8	
Immunogen Catalog Number: AG6144	Full Name: microtubule-associated protein 1 light chain 3 beta	
	Calculated MW: 15 kDa	
	Observed MW: 14-18 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : mouse brain tissue, HEK-293 cells, HeLa cells, Chloroquine treated HEK-293 cells, Chloroquine treated HeLa cells
Cited Applications: WB, IHC, IF	IHC : human colon cancer tissue, mouse brain tissue
Species Specificity: human, mouse, rat, pig	IF/ICC : Chloroquine treated HeLa cells,
Cited Species: human, mouse, rat, bovine, sheep	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Map1LC3, also known as LC3, is the human homolog of yeast Atg8 and is involved in the formation of autophagosomal vacuoles, called autophagosomes. Three human Map1LC3 isoforms, MAP1LC3A, MAP1LC3B, and MAP1LC3C, undergo post-translational modifications during autophagy. And they differ in their post-translation modifications during autophagy. Map1LC3 also exists in two modified forms, an 18 kDa cytoplasmic form that was originally identified as a subunit of the microtubule-associated protein 1, and a 14-16 kDa form that is associated with the autophagosome membrane.

Notable Publications

Author	Pubmed ID	Journal	Application
Xue-Jiao Liu	40061589	World J Gastroenterol	WB,IF
Shihua Deng	40016828	J Transl Med	WB
Hongzhu Zhang	39986118	Redox Biol	IF

Storage

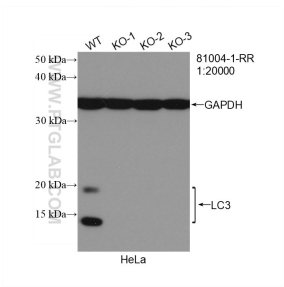
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

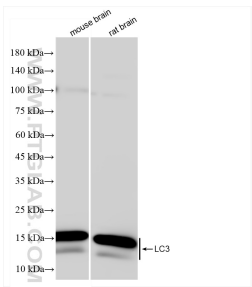
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

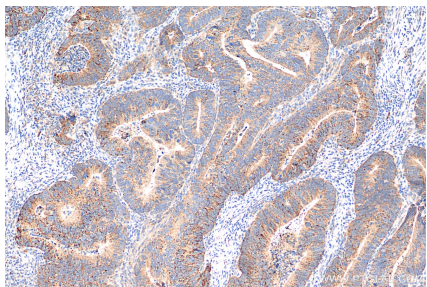
Selected Validation Data



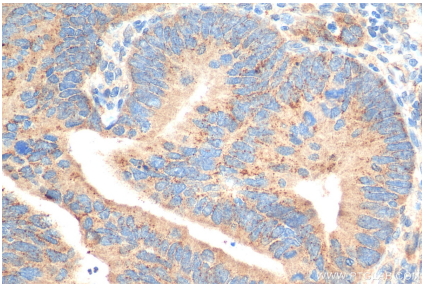
WB result of LC3 antibody (81004-1-RR; 1:20000; room temperature for 1.5 hours) with negative Control and LC3 knockout HeLa cells.



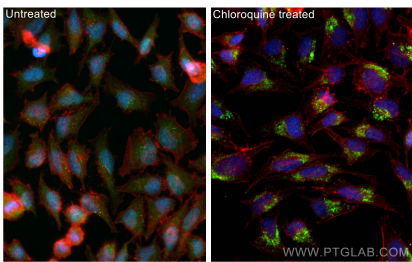
mouse brain tissue were subjected to SDS PAGE followed by western blot with 81004-1-RR (LC3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



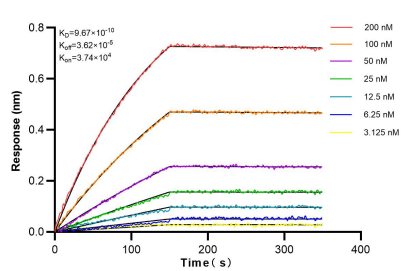
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81004-1-RR (LC3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81004-1-RR (LC3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed Chloroquine treated HeLa cells using LC3 antibody (81004-1-RR, Clone: 5P12) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite®594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red).



Biolayer interferometry (BLI) kinetic assays of 81004-1-RR against Human LC3 were performed. The affinity constant is 0.967 nM.