

For Research Use Only

LC3 Recombinant antibody, PBS Only

Catalog Number: 81004-1-PBS

Featured Product



Basic Information

Catalog Number:

81004-1-PBS

Size:

100ug, Concentration: 1mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6144

GenBank Accession Number:

BC067797

GeneID (NCBI):

81631

ENSEMBL Gene ID:

ENSG00000140941

UNIPROT ID:

Q9GZQ8

Full Name:

microtubule-associated protein 1
light chain 3 beta

Calculated MW:

15 kDa

Observed MW:

14-18 kDa

Purification Method:

Protein A purification

CloneNo.:

5P12

Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat, pig

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

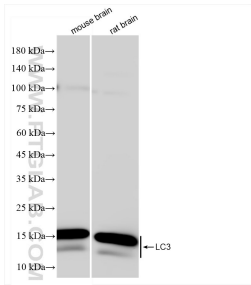
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

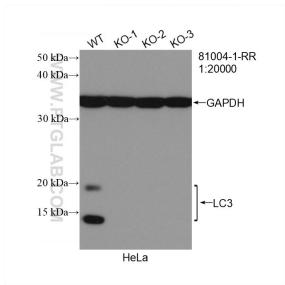
W: ptglab.com

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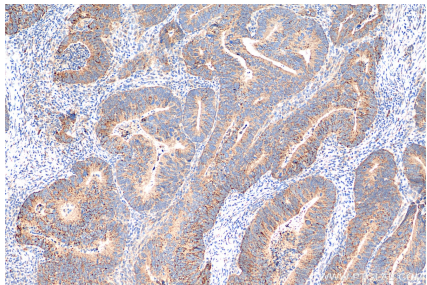
Selected Validation Data



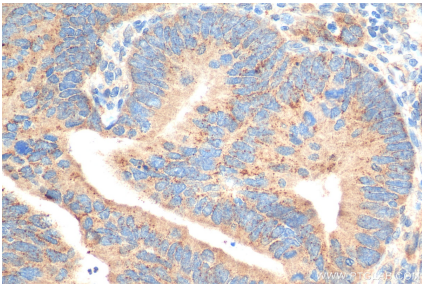
mouse brain tissue were subjected to SDS PAGE followed by western blot with 81004-1-RR (LC3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81004-1-PBS in a different storage buffer formulation.



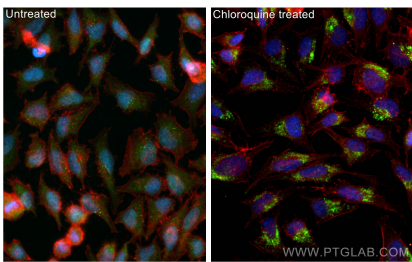
WB result of LC3 antibody (81004-1-RR; 1:20000; room temperature for 1.5 hours) with negative Control and LC3 knockout HeLa cells. This data was developed using the same antibody clone with 81004-1-PBS in a different storage buffer formulation.



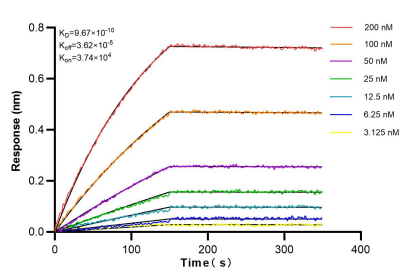
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81004-1-RR (LC3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81004-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 81004-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 81004-1-PBS in a different storage buffer formulation.



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