

Anti-LC3 α/β Rabbit pAb



WL01506

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-LC3 α/β Rabbit pAb		
Source	Rabbit		
Species reactivity	Human, Mouse, Rat		
Tested applications	Western blot	1:500-1:1000	
	Immunohistochemistry	1:100-1:500	
	<i>*Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.</i>		
Molecular Wt.	14,16 kDa		
Pack size	50/100/200/500/1000 μ l		
Storage	Store at -20°C. Avoid freeze/thaw cycles.		
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide		

General Information

Background

The autophagy protein LC3, a mammalian homologue of Atg8, was originally identified as microtubule-associated protein 1 light chain 3. It is a component of both the MAP1A and MAP1B microtubule-binding domains and the heavy-chain independent regulation of LC3 expression might modify MAP1 microtubule-binding activity during development. LC3 is the only known mammalian protein identified that stably associate with the autophagosome membranes. LC3-I is cytosolic and LC3-II is membrane bound and enriched in the autophagic vacuole fraction. The detection of LC3-I to LC3-II conversion is a useful and sensitive marker for distinguishing autophagy in mammalian cells.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of LC3 α/β .

Purification

Polyclonal antibody was purified by protein A affinity chromatography.

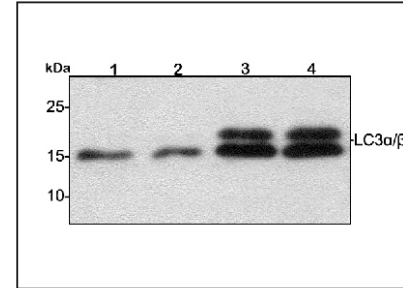
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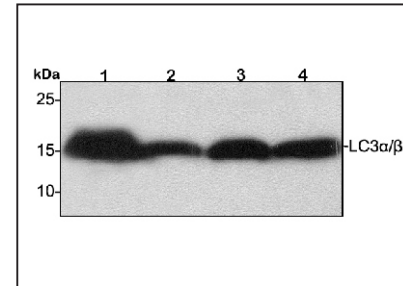
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Product Images



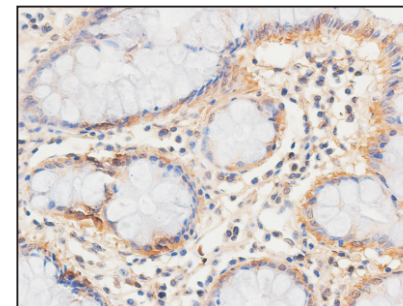
Western blot-Anti-LC3 α/β pAb

Lane 1: Human HEK-293 cell lysate 24 μ g
Lane 2: Human THP-1 cell lysate 24 μ g
Lane 3: Human MCF-7 cell lysate 24 μ g
Lane 4: Human HepG2 cell lysate 24 μ g
Separation gel: 15% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1 \times TBST, at RT with gentle shaking
Primary antibody: 1:1000 in blocking buffer, 4°C, overnight
Visualization: ECL, 30s-2min



Western blot-Anti-LC3 α/β pAb

Lane 1: Mouse heart tissue lysate 24 μ g
Lane 2: Mouse brain tissue lysate 24 μ g
Lane 3: Rat liver tissue lysate 24 μ g
Lane 4: Rat colon tissue lysate 24 μ g
Separation gel: 15% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1 \times TBST, at RT with gentle shaking
Primary antibody: 1:750 in blocking buffer, 4°C, overnight
Visualization: ECL, 30s-2min



Immunohistochemistry-Anti-LC3 α/β pAb

Sample: Human stomach cancer tissue
Antigen retrieval: pH 9.0 Tris-EDTA buffer
Primary antibody: 1:100, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB

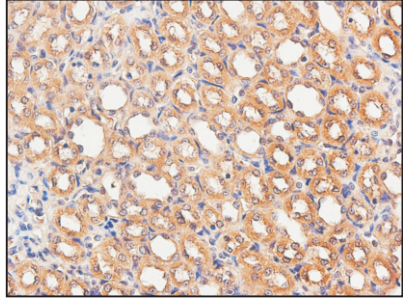
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Immunohistochemistry-Anti-LC3 α/β pAb

Sample: Rat kidney tissue

Antigen retrieval: pH 9.0 Tris-EDTA buffer

Primary antibody: 1:500, 4°C, overnight

Secondary antibody-Biotin: 1:150, 37°C, 1h

Streptavidin-HRP: 1:200, 37°C, 30min

Visualization: DAB