

LC3B Recombinant Rabbit Monoclonal Antibody (2H30L32)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	2H30L32
Conjugate	Unconjugated
Immunogen	Recombinant human LC3B protein corresponding to amino acids 2-120
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532340

Applications	Tested Dilution	Publications
Western Blot (WB)	1-5 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunocytochemistry (ICC/IF)	1-3 µg/mL	4 Publications
Immunoprecipitation (IP)	-	1 Publication
ChIP assay (ChIP)	1 µL	-

Product Specific Information

This antibody is predicted to react with mouse based on sequence homology.

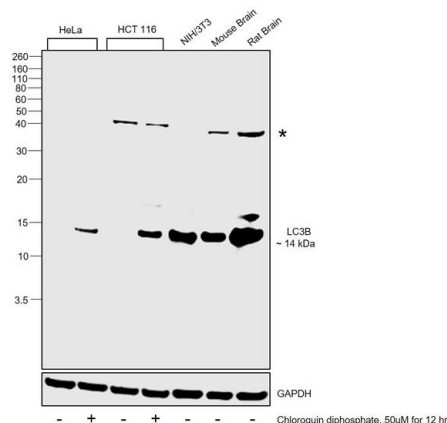
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For LC3B Recombinant Rabbit Monoclonal Antibody (2H30L32)

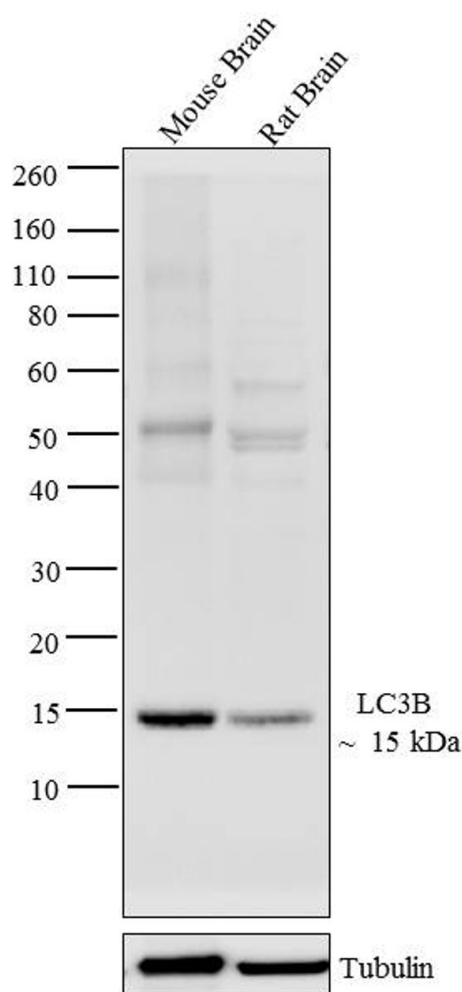
LC3B Antibody (700712) in WB

Western blot was performed using Anti-LC3B Recombinant Rabbit Monoclonal Antibody (2H30L32)(Product # 700712) and a 14 kDa band corresponding to LC3B was observed across cell lines and tissue extracts tested and increased upon Chloroquine diphosphate treatment. Membrane enriched extracts (30 µg lysate) of HeLa (Lane 1), HeLa treated with Chloroquine diphosphate (50 µM for 12 hr) (Lane 2), HCT 116 (Lane 3), HCT 116 treated with Chloroquine diphosphate (50 µM for 12 hr) (Lane 4), NIH/3T3 (Lane 5) and tissue extracts of Mouse Brain (Lane 6) and Rat Brain (Lane 7) were electrophoresed using NuPAGE™ 12% Bis-Tris Protein Gel (Product # NP0342BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (2 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



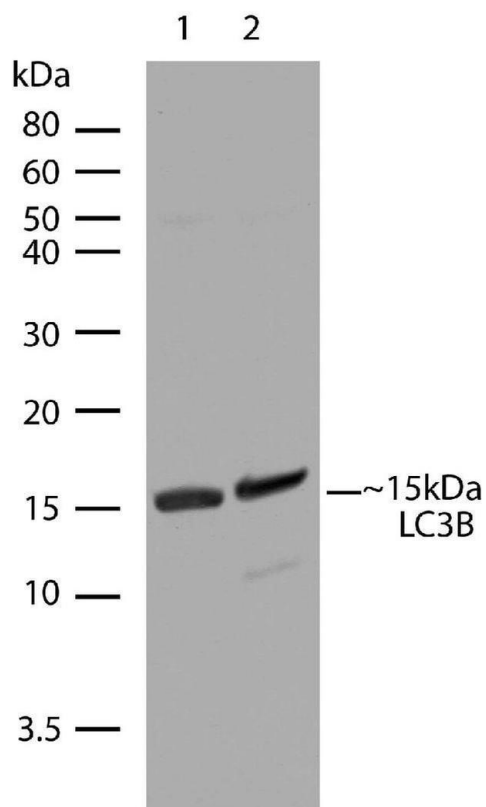
LC3B Antibody (700712) in WB

Western blot analysis of LC3B was performed by loading 30 µg of Mouse Brain (lane1) and Rat Brain (lane2) tissue lysate using NuPAGE® Novex® 4-12% Bis-Tris gel (Product # NP0322BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. LC3B was detected at ~15 kDa using LC3B Recombinant Rabbit Monoclonal Antibody (Product # 700712) at 2-3 µg/mL in 2.5% skim milk at 4°C overnight on a rocking platform. Goat anti-Rabbit IgG - HRP Secondary Antibody (Product # G-21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



LC3B Antibody (700712) in WB

Western blot analysis of MAP1LC3B in rat brain cell lysate (lane 1) and mouse brain cell lysate (lane 2) (30 µg/each lane) using a MAP1LC3B recombinant rabbit monoclonal antibody (Product # 700712) at a dilution of 2.5 µg/mL. NBT/BCIP was used as the substrate (Product # WB7105).



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Western Blot (3)

<p>Scientific reports</p> <p>Acid ceramidase controls apoptosis and increases autophagy in human melanoma cells treated with doxorubicin.</p> <p>"700712 was used in Western Blot to elucidate the role of acid ceramidase in chemotherapy resistance in melanoma cells."</p> <p>Authors: Lai M,Amato R,La Rocca V,Bilgin M,Freer G,Spezia P,Quaranta P,Piomelli D,Pistello M</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:1000</p>
<p>Archiv der Pharmazie</p> <p>Mannich Curcuminoids as Potent Anticancer Agents.</p> <p>"Published figure using LC3B monoclonal antibody (Product # 700712) in Western Blot"</p> <p>Authors: Gyuris M,Hackler L,Nagy LI,Alföldi R,Rédei E,Marton A,Vellai T,Faragó N,Ózsvári B,Hetényi A,Tóth GK,Sipos P,Kanizsai I,Puskás LG</p>	<p>Year 2017</p>

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Immunohistochemistry (1)

<p>Nature</p> <p>Allele-selective lowering of mutant HTT protein by HTT-LC3 linker compounds.</p> <p>"700712 was used in Immunohistochemistry-immunofluorescence to demonstrate the concept of lowering levels of disease-causing proteins using autophagosome-tethering compounds."</p> <p>Authors: Li Z,Wang C,Wang Z,Zhu C,Li J,Sha T,Ma L,Gao C,Yang Y,Sun Y,Wang J,Sun X,Lu C,Difiglia M,Mei Y,Ding C,Luo S,Dang Y,Ding Y,Fei Y,Lu B</p>	<p>Year 2019</p> <p>Species Human</p>
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Immunocytochemistry (4)

<p>Cell research</p> <p>Degradation of lipid droplets by chimeric autophagy-tethering compounds.</p> <p>"Published figure using LC3B recombinant monoclonal antibody (Product # 700712) in Immunocytochemistry"</p> <p>Authors: Fu Y,Chen N,Wang Z,Luo S,Ding Y,Lu B</p>	<p>Year 2021</p>
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IP (1)

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