

BNIP3L Monoclonal Antibody (ZN002)

Catalog Number39-3300

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Non-human primate
Host/Isotope	Mouse / IgG1, kappa	Published species	Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	Assay-dependent
Clone	ZN002	Western Blot (WB)	2 µg/mL
Immunogen	Synthetic peptide derived from the internal region of human, mouse and rat Nix proteins	Immunocytochemistry (ICC/IF)	2 µg/mL
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 2 publications below
Concentration	0.5 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Protein A		
Storage buffer	PBS, pH 7.4		
Contains	0.1% sodium azide		
Storage Conditions	-20°C		

Background/Target Information

This gene encodes a protein that interacts with the small GTPase rab11. A similar protein in rat binds the GTP-containing active form of rab11. This protein may play a role in endosome recycling. Alternate splicing results in multiple transcript variants.

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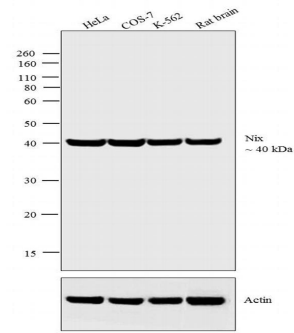
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## Product Images For BNIP3L Monoclonal Antibody (ZN002)

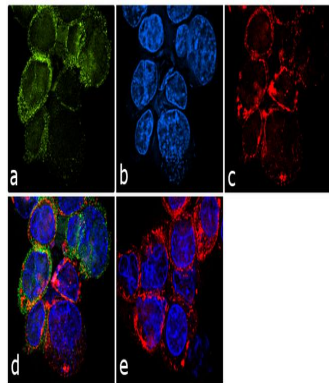
### BNIP3L Antibody (39-3300) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), COS-7 (Lane 2), K-562 (Lane 3), and tissue extract (30 µg lysate) of rat brain (Lane 4). The blots were probed with Mouse Anti-Nix Monoclonal Antibody (Product # 39-3300, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 40 kDa band corresponding to a Nix monomer was observed across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



### BNIP3L Antibody (39-3300) in ICC/IF

Immunofluorescence analysis of NIX was performed using 70% confluent log phase K-562 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with BNIP3L (ZN002) Mouse Monoclonal Antibody (Product # 39-3300) at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membranous localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



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PubMed References For BNIP3L Monoclonal Antibody (ZN002)

2 Western Blot References

Species / Dilution	Summary
Mouse / Not Cited	<p>39-3300 was used in Western Blotting to provide evidence that in vivo, mitochondrial autophagy is activated during sepsis, and that compensation for a lack of PARK2 is only partial and/or that PARK2 exerts additional protective roles in mitochondria.</p> <p>Autophagy ( 2013; 9: 1837) <b>"Protective role of PARK2/Parkin in sepsis-induced cardiac contractile and mitochondrial dysfunction."</b> Author(s):Piquereau J,Godin R,Deschênes S,Bessi VL,Mofarrahi M,Hussain SN,Burelle Y PubMed Article URL:<a href="http://dx.doi.org/10.4161/auto.26502">http://dx.doi.org/10.4161/auto.26502</a></p>
Mouse / Not Cited	<p>39-3300 was used in Western Blotting to investigate the role of Parkin in muscle function and this relationship with mitochondria.</p> <p>The Journal of physiology ( 2018; 596: 2565) <b>"Protective role of Parkin in skeletal muscle contractile and mitochondrial function."</b> Author(s):Gouspillou G,Godin R,Piquereau J,Picard M,Mofarrahi M,Mathew J,Purves-Smith FM,Sgarioto N,Hepple RT, Burelle Y,Hussain SNA PubMed Article URL:<a href="http://dx.doi.org/10.1113/JP275604">http://dx.doi.org/10.1113/JP275604</a></p>

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