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## BNIP3L/Nix Antibody Image: Coll Signaling to the coll of the coll of

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 38, 80	Source/Isotype: Rabbit	<b>UniProt ID:</b> #O60238	Entrez-Gene Id: 665	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		BNIP3L/Nix Antibody recognizes endogenous levels of total BNIP3L/Nix protein.					
Species predicted to react based on 100% sequence homology		Rat					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu128 of human BNIP3L/Nix protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		(3), and Nix (4), is a me BNIP3. BNIP3L can bind denaturing by SDS and suggest that BNIP3L re- maturation via mitochor regulated during termi 11). BNIP3L directly re- important components amino-terminal LC3-int formation either via the Beclin-1 (13). BNIP3L/M ability to mediate the n opening of mitochondr generation of reactive	mber of the Bcl-2 f d BNIP3, Bcl-x <sub>L</sub> , and reducing condition gulates autophagy and erythroid differ gulates the elimination of the autophagion (L eracting region (L eracting region (L ix also plays a pive nitochondrial trans- rial permeability tr oxygen species, ar	eracting protein 3-like (B family of apoptotic regul d Bcl-2 (1-5). BNIP3L for ns (5). BNIP3L is a mitod ic clearance of damaged (6,7). It has been shown rentiation (6-8), as well a ation of mitochondria the c machinery, including L IR) (12). BNIP3L may also utophagy proteins or by otal role in Parkin-media slocation of Parkin (14). <i>J</i> ansition pores resulting id induction of necrosis.	ators with highest h ms homodimers the hondrial protein an l mitochondria durin that the expression as in tumor cell lines rough its ability to b C3/Atg8 and GABAF o indirectly activate binding Bcl-xL, which ted mitochondrial a Activated BNIP3L ca in mitochondrial de Due to its involvem	nomology to at withstand not knockout studies ng erythroid nof BNIP3L is up- s during hypoxia (9- bind to and recruit RAP proteins, via its phagophore ch in turn releases autophagy via its an promote the epolarization, hent in cell death	
Background Re	ferences	2. Yasuda, M. et al. (199 3. Ohi, N. et al. (1999) ( 4. Chen, G. et al. (1999) 5. Imazu, T. et al. (1999)	99) <i>Cancer Res</i> 59, <i>Cell Death Differ</i> 6, <i>J Biol Chem</i> 274, 7 <i>Oncogene</i> 18, 45 (2007) <i>Proc Natl A</i> (2007) <i>Proc Natl A</i> (2003) <i>Blood</i> 102, 7 (2003) <i>Blood</i> 102, 7 (2003) <i>Cancer Res</i> 6 <i>Proc Natl Acad Sci</i> <i>Cancer Cell</i> 6, 597-6 (2009) <i>EMBO Rep</i> 11, 4 (2009) <i>Cell Dea</i>	314-25. 7-10. 23-9. <i>cad Sci USA</i> 104, 19500-5 32-5. 12-7. 1, 6669-73. <i>USA</i> 97, 9082-7. 509. 5-51. <i>ath Differ</i> 16, 939-46.			
Species Reactiv	/ity	Species reactivity is det	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted shaking, overnight.	primary antibody ir	n 5% w/v BSA, 1X	

Applications Key	W: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	H: Human M: Mouse			
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