Cell Signaling Store at -20C **BNIP3** Antibody H. 877-616-CELL (2355) orders@cellsignal.com Orders: 877-678-TECH (8324) Support: 69, info@cellsignal.com cellsignal.com Web: 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 22-28, 50-55	Source/Isotype: Rabbit	UniProt ID: #O55003	Entrez-Gene Id: 12176
Product Usage Information		Application Western Blotting	Dilution 1:1000			
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		BNIP3 Antibody detects endogenous levels of total BNIP3 protein from mouse and rat.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser60 of BNIP3 from mouse/rat. Antibodies were purified by peptide affinity chromatography.				
Background		member that contains domain (1-3). While B SDS-PAGE and include BNIP3 associates with E1B-19kDa. BNIP3 is of the TM domain, and r activity (4). In addition hypoxic conditions, Bl Beclin-1 complex (9). I ubiquitin ligase Parkin BNIP3 may also locali autophagic clearance mainly regulated by t	s a Bcl-2 homology 3 NIP3 has a predicted a anti-apoptotic fam distinct from other E not the BH3 domain, n to apoptosis, BNIP NIP3 can induce mit BNIP3 can also prom n to the mitochondr ze to the endoplasm of ER (ERphagy) (11 he transcription fact	in 3) is a pro-apoptotic r 3 (BH3) domain and a ca d molecular weight of al 60 kDa that may be a di ily members Bcl-2, Bcl-x cl-2 family members that is required for mitocho 3 has been implicated in ochondrial autophagy (note mitophagy by trigg ia (10) or by directly bind- nic reticulum (ER) where). Increased expression for HIF-1α (12-14). Silence I types of cancer cells ar	rboxyl-terminal tra bout 22 kDa, it runs meric form that is r L, and the adenovir at contain only the ndrial targeting an intophagy) by disru- ering the transloca ding LC3 on the aut it can selectively in of BNIP3 under hyp- ing of the BNIP3 pr	nsmembrane (TM) anomalously on not reduced (2). us homologue BH3 domain in that d pro-apoptotic utophagy (6-11). In upting the Bcl-2- tion of the E3 ophagosome (11). duce the poxic conditions is romoter by
Background References		 Boyd, J.M. et al. (1994) <i>Cell</i> 79, 341-51. Chen, G. et al. (1997) <i>J Exp Med</i> 186, 1975-83. Yasuda, M. et al. (1998) <i>J Biol Chem</i> 273, 12415-21. Ray, R. et al. (2000) <i>J Biol Chem</i> 275, 1439-48. Vande Velde, C. et al. (2000) <i>Mol Cell Biol</i> 20, 5454-68. Daido, S. et al. (2007) <i>Mol Cell Biol</i> 27, 6229-42. Quinsay, M.N. et al. (2010) <i>Autophagy</i> 6, 855-62. Bellot, G. et al. (2001) <i>Am J Physiol Heart Circ Physiol</i> 301, H1924-31. Hanna, R.A. et al. (2012) <i>J Biol Chem</i> 287, 19094-104. Bruick, R.K. (2000) <i>Proc Natl Acad Sci USA</i> 97, 9082-7. Guo, K. et al. (2001) <i>Cancer Res</i> 61, 6669-73. Sowter, H.M. et al. (2004) <i>Int J Oncol</i> 24, 1279-88. Okami, J. et al. (2004) <i>Cancer Res</i> 64, 5338-46. Murai, M. et al. (2005) <i>Br J Cancer</i> 92, 1165-72. 				
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight,				

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key	W: Western Blotting			
Cross-Reactivity Key	M: Mouse R: Rat			
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