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McI-1 Antibody Orders



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit	UniProt ID: #Q07820	Entrez-Gene Id: 4170
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soo 20°C. Do not aliquot th		5), 150 mM NaCl, 100 µg	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Ser	sitivity	Mcl-1 Antibody detect other Bcl-2 family mer		ls of human Mcl-1. The a ical levels.	ntibody does not cr	oss-react with
Source / Purifi	cation			munizing animals with Acl-1. Antibodies are pur		
Background		Mcl-1 is an anti-apoptotic member of the Bcl-2 family originally isolated from the ML-1 human myeloid leukemia cell line during phorbol ester-induced differentiation along the monocyte/macrophage pathway (1). Similar to other Bcl-2 family members, Mcl-1 localizes to the mitochondria (2), interacts with and antagonizes pro-apoptotic Bcl-2 family members (3), and inhibits apoptosis induced by a number of cytotoxic stimuli (4). Mcl-1 differs from its other family members in its regulation at both the transcriptional and posttranslational level. First, Mcl-1 has an extended amino-terminal PEST region, which is responsible for its relatively short half-life (1,2). Second, unlike other family members, Mcl-1 is rapidly transcribed via a PI3K/Akt dependent pathway, resulting in its increased expression during myeloid differentiation and cytokine stimulation (1,5-7). Mcl-1 is phosphorylated in response to treatment with phorbol ester, microtubule-damaging agents, oxidative stress, and cytokine withdrawal (8-11). Phosphorylation at Thr163, the conserved MAP kinase/ERK site located within the PEST region, slows Mcl-1 protein turnover (10) but may prime the GSK-3 mediated phosphorylation at Ser159 that leads to Mcl-1 destabilization (11). Mcl-1 deficiency in mice results in peri-implantation lethality (12). In addition, conditional disruption of the corresponding <i>mcl-1</i> gene shows that Mcl-1 plays an important role in early lymphoid development and in the maintenance of mature lymphocytes (13).				
Background R	eferences	1. Kozopas, K.M. et al. 2. Yang, T. et al. (1995) 3. Sato, T. et al. (1994) 4. Zhou, P. et al. (1997) 5. Wang, J.M. et al. (199 6. Jourdan, M. et al. (199 7. Chao, J.R. et al. (199 8. Domina, A.M. et al. 9. Inoshita, S. et al. (20 10. Domina, A.M. et al 11. Maurer, U. et al. (20 12. Rinkenberger, J.L. et 13. Opferman, J.T. et a	J Cell Biol 128, 117 Proc Natl Acad Sci) Blood 89, 630-43. 99) Mol Cell Biol 19 003) Oncogene 22, 8) Mol Cell Biol 18, (2000) J Biol Chem 27 . (2004) Oncogene 006) Mol Cell 21, 74 et al. (2000) Genes	USA 91, 9238-42. , 6195-206. 2950-9. 4883-98. 275, 21688-94. 7, 43730-4. 23, 5301-15. 9-60. Dev 14, 23-7.		
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot E	Buffer			membrane with diluted with gentle shaking, ove		ז 5% w/v nonfat
Applications K	ey	W: Western Blotting				
Cross-Reactivi	ty Key	H: Human				

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