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Phospho-Mcl-1 (Ser64) Antibody



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

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 sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Phospho-Mcl-1 (Ser64) Antibody recognizes endogenous levels of Mcl-1 protein only when phosphorylated at Ser64. Non-specific bands of unknown origin are detected in some cell lines at 70 and 140 kDa.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser64 of human Mcl-1 protein.					
Background		leukemia cell line dur pathway (1). Similar to with and antagonizes number of cytotoxic s transcriptional and po which is responsible f rapidly transcribed vi- myeloid differentiation treatment with phorb (8-11). Phosphorylation slows Mcl-1 protein tu leads to Mcl-1 destab addition, conditional role in early lymphoic	ring phorbol ester-ir o other Bcl-2 family is pro-apoptotic Bcl-2 stimuli (4). Mcl-1 diff osttranslational leve for its relatively sho a a PI3K/Akt depend on and cytokine stim bol ester, microtubul on at Thr163, the co urnover (10) but ma dilization (11). Mcl-1 disruption of the co d development and lcl-1 at Ser64 can ta	Bcl-2 family originally is aduced differentiation al members, Mcl-1 localize family members (3), an ers from its other family fl. First, Mcl-1 has an extra half-life (1,2). Second, dent pathway, resulting inulation (1,5-7). Mcl-1 is pe-damaging agents, oxinserved MAP kinase/ER by prime the GSK-3 media deficiency in mice result rresponding mcl-1 general the maintenance of meget it for ubiqutination	ong the monocyte/es to the mitochono d inhibits apoptosis/members in its re- ended amino-termi unlike other family in its increased exp pohosphorylated in r dative stress, and c K site located withir ated phosphorylatics is in peri-implantatics shows that Mcl-1 pature lymphocytes	Imacrophage Iria (2), interacts Is induced by a gulation at both the inal PEST region, members, Mcl-1 is ression during response to ytokine withdrawal in the PEST region, on at Ser159 that on lethality (12). In olays an important (13).	
Background References		2. Yang, T. et al. (1995 3. Sato, T. et al. (1994 4. Zhou, P. et al. (1997 5. Wang, J.M. et al. (1966) 6. Jourdan, M. et al. (1968) 8. Domina, A.M. et al. 9. Inoshita, S. et al. (2016) 10. Domina, A.M. et al. 11. Maurer, U. et al. (2012) 12. Rinkenberger, J.L. 13. Opferman, J.T. et al. (1014)	Das, K.M. et al. (1993) <i>Proc Natl Acad Sci USA</i> 90, 3516-20. T. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 9238-42. T. et al. (1997) <i>Blood</i> 89, 630-43. J. J.M. et al. (1999) <i>Mol Cell Biol</i> 19, 6195-206. J.M. et al. (2003) <i>Oncogene</i> 22, 2950-9. J.R. et al. (1998) <i>Mol Cell Biol</i> 18, 4883-98. na, A.M. et al. (2000) <i>J Biol Chem</i> 275, 21688-94. J.J. et al. (2002) <i>J Biol Chem</i> 277, 43730-4. J.J. et al. (2004) <i>Oncogene</i> 23, 5301-15. J. et al. (2006) <i>Mol Cell</i> 21, 749-60. J. enberger, J.L. et al. (2003) <i>Nature</i> 426, 671-6. J. et al. (2011) <i>Nature</i> 471, 104-9. J. J. Et al. (2011) <i>Nature</i> 471, 110-4.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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