Conjugate)

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Cell Signaling TECHNOLOGY®

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

McI-1 (D2W9E) Rabbit mAb (PE

Applications: Reactive FC-FP H M		UniProt ID: Entrez-Gene Id: #P97287 17210
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide an antibody. Protect from light. Do not freeze.	d 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Mcl-1 (D2W9E) Rabbit mAb (PE Conjugate) recognizes en	ndogenous levels of total Mcl-1 protein.
Source / Purification	Monoclonal antibody is produced by immunizing animals w residues surrounding Pro60 of mouse Mcl-1 protein.	vith a synthetic peptide corresponding to
Product Description	This Cell Signaling Technology antibody is conjugated to p flow cytometry analysis in human cells. This antibody is ex reactivity as the unconjugated McI-1 (D2W9E) Rabbit mAb	pected to exhibit the same species cross-
Background	Mcl-1 is an anti-apoptotic member of the Bcl-2 family origin leukemia cell line during phorbol ester-induced differentiatii (1). Similar to other Bcl-2 family members, Mcl-1 localizes i antagonizes pro-apoptotic Bcl-2 family members (3), and in cytotoxic stimuli (4). Mcl-1 differs from its other family mem and posttranslational level. First, Mcl-1 has an extended ar for its relatively short half-life (1,2). Second, unlike other fa Pl3K/Akt dependent pathway, resulting in its increased exp cytokine stimulation (1,5-7). Mcl-1 is phosphorylated in res microtubule-damaging agents, oxidative stress, and cytokin the conserved MAP kinase/ERK site located within the PES may prime the GSK-3 mediated phosphorylation at Ser159 deficiency in mice results in peri-implantation lethality (12). corresponding <i>mcl-1</i> gene shows that Mcl-1 plays an impor the maintenance of mature lymphocytes (13).	ion along the monocyte/macrophage pathway to the mitochondria (2), interacts with and nhibits apoptosis induced by a number of nbers in its regulation at both the transcriptional mino-terminal PEST region, which is responsible unily members, Mcl-1 is rapidly transcribed via a pression during myeloid differentiation and sponse to treatment with phorbol ester, ne withdrawal (8-11). Phosphorylation at Thr163, ST region, slows Mcl-1 protein turnover (10) but that leads to Mcl-1 destabilization (11). Mcl-1 . In addition, conditional disruption of the
Background References	 Kozopas, K.M. et al. (1993) Proc Natl Acad Sci USA 90, Yang, T. et al. (1995) J Cell Biol 128, 1173-84. Sato, T. et al. (1994) Proc Natl Acad Sci USA 91, 9238-4 Zhou, P. et al. (1997) Blood 89, 630-43. Wang, J.M. et al. (1999) Mol Cell Biol 19, 6195-206. Jourdan, M. et al. (2003) Oncogene 22, 2950-9. Chao, J.R. et al. (1998) Mol Cell Biol 18, 4883-98. Domina, A.M. et al. (2000) J Biol Chem 275, 21688-94. Inoshita, S. et al. (2002) J Biol Chem 277, 43730-4. Domina, A.M. et al. (2004) Oncogene 23, 5301-15. Maurer, U. et al. (2006) Mol Cell 21, 749-60. Rinkenberger, J.L. et al. (2003) Nature 426, 671-6. 	
Species Reactivity	Species reactivity is determined by testing in at least one ap	pproved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Ourses Desette itself		

Cross-Reactivity Key

1/1/24, 1:57 PM	Mcl-1 (D2W9E) Rabbit mAb (PE Conjugate) (#65617) Datasheet Without Images Cell Signaling Technology	
	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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