Miz-1 Antibody View Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com



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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit	UniProt ID: #Q13105	Entrez-Gene Id: 7709
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		Miz-1 Antibody recognizes endogenous levels of total Miz-1 protein. This antibody cross-reacts with a 60 kDa protein of unknown origin in some cell lines.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro158 of human Miz-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Miz-1 (Zbtb17) is a poxvirus and zinc finger (POZ) transcription factor with an amino-terminal BTB/POZ domain and 13 carboxy-terminal zinc finger domains. Miz-1 plays a key role in cell cycle control through activation of the cyclin-dependent kinase inhibitors p15, INK4B, and p21 Waf1/Cip1 (1-4). The transcriptional activity of Miz-1 is repressed through direct interaction with Myc (1-4). In the presence of DNA damage, Myc is recruited to the p21 Waf1/Cip1 promoter by Miz-1 and blocks p53-mediated induction of p21 Waf1/Cip1, ultimately resulting in p53-mediated apoptosis rather than cell cycle arrest (4). Miz-1 also plays a role during lymphocyte development. In developing B and T cells, Miz-1 represses suppressor of cytokine signaling 1 (SOCS1) expression, which enables signaling through the IL-7 receptor and upregulation of the pro-survival protein Bcl-2 (5,6).				
Background References		1. Peukert, K. et al. (19 2. Seoane, J. et al. (200 3. Staller, P. et al. (200 4. Seoane, J. et al. (200 5. Kosan, C. et al. (201 6. Saba, I. et al. (2011)	01) <i>Nat Cell Biol</i> 3, 4 1) <i>Nat Cell Biol</i> 3, 39 02) <i>Nature</i> 419, 729 0) <i>Immunity</i> 33, 91	00-8. 12-9. -34. 7-28.		
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 M: Mouse				
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