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CBFβ (D4N2N) Rabbit mAb



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Applications: W, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit IgG	UniProt ID: #Q13951	Entrez-Gene Id: 865
Product Usage Information		For optimal ChIP results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.				
		Application Western Blotting Chromatin IP			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CBFβ (D4N2N) Rabbit mAb recognizes endogenous levels of total CBFβ protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn14 of human CBF β protein.				
Background		Core-binding factor subunit β (CBF β) is a non-DNA binding transcription factor subunit that associates with and regulates the DNA binding activity of RUNX1, RUNX2, and RUNX3 (1). CBF β is ubiquitously expressed and has been implicated in a variety of developmental processes including hematapoiesis, T cell development, chondrogenesis, and bone formation (2-7). In addition, investigators have identified CBF β as one of the most frequently translocated genes in leukemia (8) and research studies have found it to be required for HIV immune evasion (9,10). CBF β interacts with the viral protein VIF and triggers assembly of a ubiquitin ligase complex that targets the retroviral inhibitor APOBEC3G for degradation (9,10).				
Background References		1. Ogawa, E. et al. (1993) <i>Virology</i> 194, 314-31. 2. Wang, Q. et al. (1996) <i>Cell</i> 87, 697-708. 3. Talebian, L. et al. (2007) <i>Blood</i> 109, 11-21. 4. Johnson, K. et al. (2012) <i>Science</i> 336, 717-21. 5. Yoshida, C.A. et al. (2002) <i>Nat Genet</i> 32, 633-8. 6. Miller, J. et al. (2002) <i>Nat Genet</i> 32, 645-9. 7. Kundu, M. et al. (2002) <i>Nat Genet</i> 32, 639-44. 8. Goyama, S. and Mulloy, J.C. (2011) <i>Int J Hematol</i> 94, 126-33. 9. Jäger, S. et al. (2012) <i>Nature</i> 481, 371-5. 10. Zhang, W. et al. (2012) <i>Nature</i> 481, 376-9.				
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.				

W: Western Blotting **ChIP:** Chromatin IP

Cross-Reactivity Key

Applications Key

H: Human M: Mouse R: Rat Mk: Monkey

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