

Di-Methyl-Histone H3 (Lys4) (C64G9) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity		Di-Methyl-Histone H3 (Lys4) (C64G9) Rabbit mAb (PE Conjugate) detects endogenous levels of histone H3 when di-methylated on Lys4. This antibody shows weak cross-reactivity with histone H3 that is mono-methylated on Lys4 but does not cross-react with non-methylated or tri-methylated histone H3 Lys4. In addition, the antibody does not cross-react with methylated histone H3 Lys9, Lys27, Lys36, or histone H4 Lys20.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of histone H3 in which Lys4 is di-methylated.				
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Di-Methyl-Histone H3 (Lys4) (C64G9) Rabbit mAb #9725.				
Background		block of chromatin. Orig now been shown to be c modifications, including methylation is a major d is crucial for the proper of histones H3 (Arg2, 17, family of protein arginin (PRMT4) (4). In contrast, but one of which contair Su(var)3-9, Enhancer of : H3 (Lys4, 9, 27, 36, 79) a silencing (4). Methylation enzymes containing met (BPTF, ING2), tudor dom	inally thought to functior lynamic proteins, underg acetylation, phosphoryla eterminant for the forma programming of the gene , 26) and H4 (Arg3) promo e methyltransferases (PR a more diverse set of hist n a conserved catalytic SE zeste, and Trithorax prote nd H4 (Lys20) and has be n of these lysine residues thyl-lysine binding modul ains (53BP1), and WD-40 ADI4, LSD1, JMJD1, JMJD2	n as a static scaffold fo oing multiple types o tion, methylation, an ation of active and ina ome during developm otes transcriptional ac MTs), including the co tone lysine methyltra T domain originally ic eins. Lysine methylati en implicated in both coordinates the recru es such as chromodo domains (WDR5) (5-8	d ubiquitination (1). Histone active regions of the genome and hent (2,3). Arginine methylation ctivation and is mediated by a p-activators PRMT1 and CARM1 nsferases has been identified, all dentified in the <i>Drosophila</i> on occurs primarily on histones transcriptional activation and uitment of chromatin modifying mains (HP1, PRC1), PHD fingers). The discovery of histone	
Background Refe	rences	 Kubicek, S. et al. (2006) Lin, W. and Dent, S.Y. (Lee, D.Y. et al. (2005) <i>E</i> Daniel, J.A. et al. (2005) <i>G</i> Shi, X. et al. (2006) <i>Na</i> Wysocka, J. et al. (2006) Wysocka, J. et al. (2005) 	6) <i>Cell Cycle</i> 4, 919-26. <i>ture</i> 442, 96-9. 6) <i>Nature</i> 442, 86-90.	nd Workshop, 1-27. ev 16, 137-42.		
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				

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