

Tri-Methyl-Histone H3 (Lys27) (C36B11) 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/Pe	ermeabilized)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), antibody. Protect from lig		zide and 2 mg/ml BS/	A. Store at 4°C. Do not aliquot the	
Specificity/Sensitivity		Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (PE Conjugate) detects endogenous levels of histone H3 only when tri-methylated on Lys27. The antibody does not cross-react with non-methylated, mono-methylated or di-methylated Lys27. In addition, the antibody does not cross-react with mono-methylated, di-methylated or tri-methylated histone H3 at Lys4, Lys9, Lys36 or Histone H4 at Lys20.				
Species predicted based on 100% se homology		Xenopus, Zebrafish				
Source / Purificat	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of histone H3 in which Lys27 is tri-methylated.				
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb #9733.				
Background		block of chromatin. Origi now been shown to be d modifications, including methylation is a major de is crucial for the proper p of histones H3 (Arg2, 17, family of protein arginine (PRMT4) (4). In contrast, a but one of which contain Su(var)3-9, Enhancer of z H3 (Lys4, 9, 27, 36, 79) ar silencing (4). Methylation enzymes containing met	nally thought to function ynamic proteins, underge acetylation, phosphorylat eterminant for the forma programming of the gene 26) and H4 (Arg3) promo e methyltransferases (PRI a more diverse set of hist a conserved catalytic SE este, and Trithorax prote ad H4 (Lys20) and has bee of these lysine residues hyl-lysine binding module ains (53BP1), and WD-40 ADI4, LSD1, JMJD1, JMJD2,	as a static scaffold f bing multiple types o tion, methylation, an tion of active and ina one during developn tes transcriptional a MTs), including the co one lysine methyltra Γ domain originally io ins. Lysine methylati en implicated in both coordinates the recri es such as chromodo domains (WDR5) (5-8	d ubiquitination (1). Histone active regions of the genome and ment (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	erences	1. Peterson, C.L. and Lan 2. Kubicek, S. et al. (2006) 3. Lin, W. and Dent, S.Y. (2 4. Lee, D.Y. et al. (2005) <i>E</i> . 5. Daniel, J.A. et al. (2005) 6. Shi, X. et al. (2006) <i>Nat</i> 7. Wysocka, J. et al. (2006 8. Wysocka, J. et al. (2005 9. Trojer, P. and Reinberg.) Ernst Schering Res Four 2006) Curr Opin Genet De ndocr Rev 26, 147-70.) Cell Cycle 4, 919-26. ure 442, 96-9.) Nature 442, 86-90.) Cell 121, 859-72.	nd Workshop, 1-27. ev 16, 137-42.		
Species Reactivit	у	Species reactivity is deter	rmined by testing in at lea	ast one approved ap	olication (e.g., western blot).	
Applications Key		FC-FP: Flow Cytometry (F	ixed/Permeabilized)			

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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