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Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

Applications: React IF-IC, FC-FP H M F	, , , ,	UniProt ID:Entrez-Gene Id:#P684318350
Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:200 - 1:800 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide a antibody. Protect from light. Do not freeze.	nd 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Ale endogenous levels of histone H3 only when tri-methylated with non-methylated, mono-methylated or di-methylated I react with mono-methylated, di-methylated or tri-methylat at Lys20.	d at Lys27. The antibody does not cross-react Lys27. In addition, the antibody does not cross-
Species predicted to react based on 100% sequence homology:	Xenopus, Zebrafish	
Source / Purification	Monoclonal antibody is produced by immunizing animals amino terminus of histone H3 in which Lys27 is tri-methyl	
Product Description	This Cell Signaling Technology antibody is conjugated to house for direct flow cytometry and immunofluorescent ar to exhibit the same species cross-reactivity as the unconj Rabbit mAb #9733.	nalysis in human cells. The antibody is expected
Background	The nucleosome, made up of four core histone proteins (block of chromatin. Originally thought to function as a stat been shown to be dynamic proteins, undergoing multiple acetylation, phosphorylation, methylation, and ubiquitinati determinant for the formation of active and inactive regior programming of the genome during development (2,3). A and H4 (Arg3) promotes transcriptional activation and is r methyltransferases (PRMTs), including the co-activators I more diverse set of histone lysine methyltransferases has conserved catalytic SET domain originally identified in the Trithorax proteins. Lysine methylation occurs primarily on and has been implicated in both transcriptional activation residues coordinates the recruitment of chromatin modify modules such as chromodomains (HP1, PRC1), PHD fing WD-40 domains (WDR5) (5-8). The discovery of histone of JMJD2, and JHDM1, has shown that methylation is a reve	tic scaffold for DNA packaging, histones have now types of post-translational modifications, including ion (1). Histone methylation is a major as of the genome and is crucial for the proper rginine methylation of histones H3 (Arg2, 17, 26) nediated by a family of protein arginine PRMT1 and CARM1 (PRMT4) (4). In contrast, a s been identified, all but one of which contain a <i>e Drosophila</i> Su(var)3-9, Enhancer of zeste, and histones H3 (Lys4, 9, 27, 36, 79) and H4 (Lys20) and silencing (4). Methylation of these lysine ing enzymes containing methyl-lysine binding gers (BPTF, ING2), tudor domains (53BP1), and demethylases, such as PADI4, LSD1, JMJD1,
Background References	 Peterson, C.L. and Laniel, M.A. (2004) <i>Curr Biol</i> 14, R5 Kubicek, S. et al. (2006) <i>Ernst Schering Res Found Wc</i> Lin, W. and Dent, S.Y. (2006) <i>Curr Opin Genet Dev</i> 16, Lee, D.Y. et al. (2005) <i>Endocr Rev</i> 26, 147-70. Daniel, J.A. et al. (2005) <i>Cell Cycle</i> 4, 919-26. Shi, X. et al. (2006) <i>Nature</i> 442, 96-9. Wysocka, J. et al. (2005) <i>Cell</i> 121, 859-72. 	orkshop, 1-27.

Encoine Departivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western biot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	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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