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Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Alexa Fluor[®] 488 Conjugate)

Applications: Reacti IF-IC, FC-FP H M R	, , ,	UniProt ID: Entrez-Gene Id: #P68431 8350
Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:100 - 1:400 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide an antibody. Protect from light. Do not freeze.	d 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Alex endogenous levels of histone H3 only when tri-methylated with non-methylated, mono-methylated, or di-methylated L react with mono-methylated, di-methylated, or tri-methylate H4 at Lys20.	at Lys27. The antibody does not cross-react ys27. 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 w amino terminus of histone H3 in which Lys27 is tri-methyla	
Product Description	This Cell Signaling Technology antibody is conjugated to A house for direct flow cytometry and immunofluorescent and to exhibit the same species cross-reactivity as the unconju Rabbit mAb #9733.	alysis in human cells. This antibody is expected
Background	The nucleosome, made up of four core histone proteins (H block of chromatin. Originally thought to function as a static been shown to be dynamic proteins, undergoing multiple ty acetylation, phosphorylation, methylation, and ubiquitination determinant for the formation of active and inactive regions programming of the genome during development (2,3). Arg and H4 (Arg3) promotes transcriptional activation and is m methyltransferases (PRMTs), including the co-activators PI more diverse set of histone lysine methyltransferases has conserved catalytic SET domain originally identified in the Trithorax proteins. Lysine methylation occurs primarily on h and has been implicated in both transcriptional activation a residues coordinates the recruitment of chromatin modifyin modules such as chromodomains (HP1, PRC1), PHD finge WD-40 domains (WDR5) (5-8). The discovery of histone de JMJD2, and JHDM1, has shown that methylation is a reven	c scaffold for DNA packaging, histones have now reso of post-translational modifications, including n (1). Histone methylation is a major of the genome and is crucial for the proper jinine methylation of histones H3 (Arg2, 17, 26) ediated by a family of protein arginine RMT1 and CARM1 (PRMT4) (4). In contrast, a been identified, all but one of which contain a Drosophila Su(var)3-9, Enhancer of zeste, and histones H3 (Lys4, 9, 27, 36, 79) and H4 (Lys20) nd silencing (4). Methylation of these lysine g enzymes containing methyl-lysine binding ers (BPTF, ING2), tudor domains (53BP1), and emethylases, such as PADI4, LSD1, JMJD1,
Background References	 Peterson, C.L. and Laniel, M.A. (2004) <i>Curr Biol</i> 14, R54 Kubicek, S. et al. (2006) <i>Ernst Schering Res Found Wor</i> Lin, W. and Dent, S.Y. (2006) <i>Curr Opin Genet Dev</i> 16, 14 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. (2006) <i>Nature</i> 442, 86-90. Wysocka, J. et al. (2005) <i>Cell</i> 121, 859-72. 	kshop, 1-27.

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
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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