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## Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)



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Applications: IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P68431	Entrez-Gene Id: 8350
Product Usage Information		<b>Application</b> Immunofluorescence (Ir Flow Cytometry (Fixed/P			<b>Dilution</b> 1:100 - 1:400 1:50
Storage		Supplied in PBS (pH 7.2), antibody. Protect from li		zide and 2 mg/ml BS/	A. Store at 4°C. Do not aliquot the
Specificity/Sensit	tivity	Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Alexa Fluor <sup>®</sup> 488 Conjugate) recognizes endogenous levels of histone H3 only when tri-methylated at 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% so homology		Xenopus, Zebrafish			
Source / Purifica	tion		produced by immunizing ne H3 in which Lys27 is tr		etic peptide corresponding to the
Description		in-house for direct flow o	ytometry and immunoflu ame species cross-reactiv	orescent analysis in	488 fluorescent dye and tested human cells. This antibody is ted Tri-Methyl-Histone H3 (Lys27)
Background		block of chromatin. Orig now been shown to be d modifications, including methylation is a major d is crucial for the proper p of histones H3 (Arg2, 17, family of protein arginin (PRMT4) (4). In contrast, but one of which contair Su(var)3-9, Enhancer of z H3 (Lys4, 9, 27, 36, 79) an silencing (4). Methylatior enzymes containing met (BPTF, ING2), tudor dom	inally thought to functior ynamic 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 a conserved catalytic SE reste, and Trithorax prote and H4 (Lys20) and has be of these lysine residues hyl-lysine binding modul ains (53BP1), and WD-40 ADI4, LSD1, JMJD1, JMJD2	a as a static scaffold for bing multiple types o tion, methylation, an tion of active and ina- one during developm oftes transcriptional ac MTs), including the co- cone lysine methyltra T domain originally ic ins. Lysine methylation en implicated in both coordinates the recru- es such as chromodo domains (WDR5) (5-8	d ubiquitination (1). Histone ctive regions of the genome and nent (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	2. Kubicek, S. et al. (2006 3. Lin, W. and Dent, S.Y. ( 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)	) <i>Cell Cycle</i> 4, 919-26. <i>cure</i> 442, 96-9. 5) <i>Nature</i> 442, 86-90.	nd Workshop, 1-27. ev 16, 137-42.	

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 Mk: Monkey
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