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Cell Signaling Di-Methyl-Histone H3 (Lys36) (C75H12) Rabbit mAb (Alexa Fluor[®] 647 Conjugate) TECHNOLOGY® 877-616-CELL (2355) Orders: orders@cellsignal.com Support: 877-678-TECH (8324)

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: React FC-FP H M F		UniProt ID:Entrez-Gene Id:#P684318350
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and antibody. Protect from light. Do not freeze.	1 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Di-Methyl-Histone H3 (Lys36) (C75H12) Rabbit mAb (Alexa endogenous levels of histone H3 only when di-methylated o with non-methylated, mono-methylated, or tri-methylated Ly react with di-methylated histone H3 Lys4, Lys9, Lys27, Lys	on Lys36. The antibody does not cross-react ys36. In addition, the antibody does not cross-
Source / Purification	Monoclonal antibody is produced by immunizing animals wi amino terminus of histone H3 in which Lys36 is di-methylate	
Product Description	This Cell Signaling Technology antibody is conjugated to Al house for direct flow cytometry analysis in human cells. This species cross-reactivity as the unconjugated Di-Methyl-Hist	s antibody is expected to exhibit the same
Background	The nucleosome, made up of four core histone proteins (H2 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). Argi and H4 (Arg3) promotes transcriptional activation and is me methyltransferases (PRMTs), including the co-activators PF more diverse set of histone lysine methyltransferases has b conserved catalytic SET domain originally identified in the <i>L</i> Trithorax proteins. Lysine methylation occurs primarily on hi and has been implicated in both transcriptional activation ar residues coordinates the recruitment of chromatin modifying 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 reverse	scaffold for DNA packaging, histones have now pes of post-translational modifications, including n (1). Histone methylation is a major of the genome and is crucial for the proper inine 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 istones H3 (Lys4, 9, 27, 36, 79) and H4 (Lys20) nd silencing (4). Methylation of these lysine g enzymes containing methyl-lysine binding rs (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 Work</i> Lin, W. and Dent, S.Y. (2006) <i>Curr Opin Genet Dev</i> 16, 1 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. Trojer, P. and Reinberg, D. (2006) <i>Cell</i> 125, 213-7. 	kshop, 1-27.
Species Reactivity	Species reactivity is determined by testing in at least one ap	proved application (e.g., western blot).
Applications Key Cross-Reactivity Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	

1/1/24, 9:50 AM	Di-Methyl-Histone H3 (Lys36) (C75H12) Rabbit mAb (Alexa Fluor® 647 Conjugate) (#15090) Datasheet Wit
	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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