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Di-Methyl-Histone H3 (Lys9) (D85B4) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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

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 BSA	A. Store at 4°C. Do not aliquot the
Specificity/Sensit	ivity	Di-Methyl-Histone H3 (Lys9) (D85B4) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) detects endogenous levels of histone H3 only when di-methylated on Lys9. The antibody does not cross-react with non- methylated, mono-methylated or tri-methylated Histone H3 Lys9. In addition, the antibody does not cross-react with histone H3 di-methylated on Lys4, Lys27, or Lys36, or histone H4 di-methylated on Lys20.			
Species predicted based on 100% se homology		D. melanogaster, Xenopu	ıs, Zebrafish, Bovine, Pig,	S. cerevisiae, C. elega	ans, Rabbit
Source / Purificat	ion	Monoclonal antibody is p amino terminus of histor	, , , , , , , , , , , , , , , , , , , ,		etic peptide corresponding to the
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Di-Methyl-Histone H3 (Lys9) (D85B4) XP [®] Rabbit mAb #4658.			
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, undergracetylation, 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 este, and Trithorax prote do H4 (Lys20) and has be do f these lysine residues hyl-lysine binding modul ans (53BP1), and WD-40 ADI4, LSD1, JMJD1, JMJD2	a as a static scaffold for bing multiple types or tion, methylation, and tion of active and ina one during developm of active and ina one during developm of the stranscriptional ac MTs), including the co cone lysine methyltrai T domain originally ic ins. Lysine methylation ins. Lysine methylation of ins durated 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 lentified 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	rences	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) E 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 Do 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 reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey		
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