

Mono-Methyl-Histone H4 (Lys20) Antibody



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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 11	Source/Isotype: Rabbit	UniProt ID: #P62805	Entrez-Gene Id: 8359
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soo 20°C. Do not aliquot th		5), 150 mM NaCl, 100 µg	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Ser	isitivity	methylated on Lys20.	The antibody does	ly detects endogenous la not cross-react with nor lot with mono-, di- or tri-	n-, di- or tri-methyla	ted Lys20. In
Species predic based on 100% homology		D. melanogaster, Xenc	opus, Zebrafish, Bo	/ine, Pig, C. elegans, Hoı	rse	
Source / Purifi	cation		f histone H4 in whi	munizing animals with ch Lys20 is mono-methy raphy.		
Background		block of chromatin. On now been shown to be modifications, includir methylation is a major is crucial for the prope of histones H3 (Arg2, family of protein argin (PRMT4) (4). In contras but one of which cont Su(var)3-9, Enhancer of H3 (Lys4, 9, 27, 36, 79) silencing (4). Methylat enzymes containing m (BPTF, ING2), tudor do	iginally thought to e dynamic proteins ing acetylation, pho r determinant for the programming of 17, 26) and H4 (Arg ine methyltransfer st, a more diverse s ain a conserved cat of zeste, and Tritho and H4 (Lys20) an ion of these lysine hethyl-lysine bindin mains (53BP1), and s PADI4, LSD1, JMJD	istone proteins (H2A, H2 function as a static scaf , undergoing multiple ty sphorylation, methylatic ne formation of active ar the genome during dev 3) promotes transcriptio ases (PRMTs), including et of histone lysine meth salytic SET domain origin rax proteins. Lysine meth d has been implicated in residues coordinates the g modules such as chro d WD-40 domains (WDR5 1, JMJD2, and JHDM1, ha	fold for DNA packag pes of post-translat on, and ubiquitination ad inactive regions of elopment (2,3). Argi nal activation and is the co-activators PF hyltransferases has ially identified in the hylation occurs prin both transcriptiona e recruitment of chr modomains (HP1, P 5) (5-8). The discover	ging, histones have ional on (1). Histone of the genome and inine methylation is mediated by a RMT1 and CARM1 been identified, all e <i>Drosophila</i> narily on histones al activation and omatin modifying RC1), PHD fingers ry of histone
Background R	eferences	1. Peterson, C.L. and L 2. Kubicek, S. et al. (20 3. Lin, W. and Dent, S. 4. Lee, D.Y. et al. (2005 5. Daniel, J.A. et al. (2006) 6. Shi, X. et al. (2006) 7. Wysocka, J. et al. (20 8. Wysocka, J. et al. (20 9. Trojer, P. and Reinber	06) <i>Ernst Schering</i> (. (2006) <i>Curr Opin</i>) <i>Endocr Rev</i> 26, 14 05) <i>Cell Cycle</i> 4, 91 <i>Vature</i> 442, 96-9. 106) <i>Nature</i> 442, 86 105) <i>Cell</i> 121, 859-7	<i>Res Found Workshop</i> , 1 <i>Genet Dev</i> 16, 137-42. 7-70. 9-26. -90. 2.	-27.	
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	ו 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting				

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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