Mono-Methyl-Histone H4 (Lys20) Antibody Orders: 877-616-CELL (2355) orders@cellsignal.com

#9724 Store at -20C

Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 11	Source: Rabbit	UniProt ID: #P62805	Entrez-Gene Id: 8359
Product Usage Information		plication stern Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				glycerol. Store at –
Specificity / Sensit	meth the a	Mono-Methyl-Histone H4 (Lys20) Antibody detects endogenous levels of histone H4 only when mono- methylated on Lys20. The antibody does not cross-react with non-, di- or tri-methylated Lys20. In additior the antibody does not cross-react with mono-, di- or tri-methylated histone H3 at Lys4, Lys9, Lys27 or Lys36.				d Lys20. In addition,
Species predicted react based on 100 sequence homolog	%	ielanogaster, Xenop	ous, Zebrafish, Bovi	ne, Pig, C. elegans	, Horse	
Source / Purificatio	amir		ne H4 in which Lys	Ū	h a synthetic peptide con ted. Antibodies are purifi	
Background	bloc beer acet dete prog and mett more cons Trith and resic mod WD-	k of chromatin. Orig n shown to be dynau ylation, phosphoryla rminant for the form ramming of the gen H4 (Arg3) promotes nyltransferases (PR e diverse set of histo served catalytic SET orax proteins. Lysin has been implicated lues coordinates the ules such as chrom 40 domains (WDRS	jinally thought to fur mic proteins, under ation, methylation, a nation of active and nome during develo s transcriptional act MTs), including the one lysine methyltra f domain originally ine methylation occu d in both transcription e recruitment of chr nodomains (HP1, Pf 5) (5-8). The discov	nction as a static sc going multiple types and ubiquitination (1 inactive regions of pment (2,3). Arginir ivation and is media co-activators PRM ansferases has bee dentified in the <i>Dro</i> rs primarily on histo onal activation and omatin modifying e RC1), PHD fingers of ery of histone demo	H2B, H3, and H4), is the affold for DNA packaging s of post-translational mo L). Histone methylation is the genome and is cruci- ne methylation of histone ated by a family of protei T1 and CARM1 (PRMT4 n identified, all but one of sophila Su(var)3-9, Enha ones H3 (Lys4, 9, 27, 36, silencing (4). Methylation nzymes containing meth (BPTF, ING2), tudor dom ethylases, such as PADI4 le epigenetic marker (9).	g, histones have now odifications, including s a major al for the proper es H3 (Arg2, 17, 26) n arginine e) (4). In contrast, a of which contain a ancer of zeste, and , 79) and H4 (Lys20) n of these lysine hyl-lysine binding hains (53BP1), and 4, LSD1, JMJD1,
Background Refere	2. Ku 3. Liu 4. Le 5. Da 6. Sł 7. W 8. W	eterson, C.L. and La ubicek, S. et al. (200 n, W. and Dent, S.Y ee, D.Y. et al. (2005) aniel, J.A. et al. (2006) ni, X. et al. (2006) N ysocka, J. et al. (20 ysocka, J. et al. (20 ojer, P. and Reinber	06) Ernst Schering 7. (2006) Curr Opin 9) Endocr Rev 26, 14 05) Cell Cycle 4, 91 Jature 442, 96-9. 106) Nature 442, 86 105) Cell 121, 859-7	Res Found Worksh Genet Dev 16, 137 17-70. 9-26. -90. '2.	ор, 1-27.	

Species Reactivity

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

Western Blot Buffer

1/1/24, 8:03 AM	Mono-Methyl-Histone H4 (Lys20) Antibody (#9724) Datasheet Without Images Cell Signaling Technology IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity	 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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