ន្ត Acetyl-Histone H3 (Lys36) Antibody





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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P68431	Entrez-Gene Id: 8350	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM soo 20°C. Do not aliquot tl), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	ycerol. Store at –	
Specificity/Sensitivity		Acetyl-Histone H3 (Lys36) Antibody recognizes endogenous levels of histone H3 protein only when acetylated at Lys36. This antibody does not cross react with histone H3 acetylated at Lys9, 14, 18, 23, 27, or 56.					
Species predicted to react based on 100% sequence homology		Hamster, Xenopus, Zebrafish, Horse, Guinea Pig					
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding acetylated Lys36 of human histone H3 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		block of chromatin. Ou now been shown to be modifications, includir acetylation occurs ma and 20), H3 (Lys9, 14, regulation of histone of repair (1-3). Hyper-ace is believed to weaken chromatin structure a addition, acetylation of bromodomain, which regulatory proteins co binding of acetylated such as CBP/p300, GC factors to facilitate tra	riginally thought to e dynamic proteins, ng acetylation, phos inly on the amino-to 18, 23, 27, 36, and 5 deposition, transcrip tylation of the histor histone-DNA and m nd increasing the ac f specific lysine resi binds to acetylated ontain bromodomain histone tails. Histon N5L2, PCAF, and Tip nscriptional activation d sirtuin proteins),	stone proteins (H2A, H2 function as a static scaft undergoing multiple ty phorylation, methylatio erminal tail domains of h 66), and H4 (Lys5, 8, 12, a ptional activation, DNA r one tails neutralizes the ucleosome-nucleosome cessibility of DNA to var dues creates docking sir lysine residues (6). Man ns and may be recruited e acetylation is mediate 660, which are recruited on (3). Deacetylation, w reverses the effects of a	fold for DNA packages of post-translat n, and ubiquitination histones H2A (Lys5), and 16) and is impo replication, recombin positive charge of the interactions, therefore rious DNA-binding p tes for a protein more y transcription and to gene promoters d by histone acetylt to genes by DNA-bothich is mediated by	ging, histones have ional on (1,2). Histone . H2B (Lys5, 12, 15, rtant for the nation, and DNA hese domains and by destabilizing proteins (4,5). In odule called the chromatin s, in part, through transferases (HATs), ound protein histone	
		multiple species, from promoters of active RI associated with transc	yeast to mammals NA polymerase II-tr riptional activation, 66 is inversely relate	by the GCN5 histone ac (9). Acetyl-histone H3 Ly anscribed genes and ov such as acetyl-histone l d to that of tri-methyl-h	/s36 is localized pre erlaps with other ac H3 Lys9 and Lys14 (dominantly to the etylation marks 9). The pattern of	
Background Re	ferences	5. Hansen, J.C. et al. (1 6. Yang, X.J. (2004) <i>Bio</i> 7. Haberland, M. et al.	eterson, C.L. (2003) 1) Annu Rev Bioche (ingston, R.E. (1998) 998) Biochemistry 3 essays 26, 1076-87. (2009) Nat Rev Ger clair, D.A. (2010) An	Nat Cell Biol 5, 395-9. m 70, 81-120. Annu Rev Biochem 67, 7, 17637-41. net 10, 32-42. nu Rev Pathol 5, 253-95.			

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	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	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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