## Acetylated-Lysine (Ac-K-103) Mouse mAb



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

Applications: I W, E-P	<b>Reactivity:</b> All	<b>Sensitivity:</b> Endogenous	Source/Isotype: Mouse IgG2a
Product Usage Information		<b>Application</b> Western Blotting Peptide ELISA (DELFIA)	<b>Dilution</b> 1:1000 1:1000
Storage			HEPES (pH 7.5), 150 mM NaCl, 100 μg/mL BSA, 50% glycerol, and less than at –20°C. <i>Do not aliquot the antibody.</i>
		For a carrier free (BSA and a	azide free) version of this product see product #66284.
Specificity/Sensitivi	ty	acetylation on the epsilon-a antibody is largely indepen recognize acetylated protei	) Mouse mAb detects proteins only when posttranslationally modified by amine groups of lysine residues. Detection of acetylated lysine by this dent of surrounding amino acid sequence. The antibody has been shown to ns including histones, p53, CBP, PCAF and chemically acetylated BSA. (U.S. 82,318; 7,259,022; 7,344,714; U.S.S.N. 11,484,485; and all foreign
Source / Purification	า	Monoclonal antibody is pro peptide.	duced by immunizing animals with a synthetic acetylated lysine-containing
Background		modification controlling pro histones (H2A, H2B, H3, and and deacetylated by histone of histones, transcription fa including chromatin structu proteomic surveys suggest of post-translational protein cycle and metabolism, long protein acetylation status is	hosphorylation of serine, threonine or tyrosine, is an important reversible betein activity. The conserved amino-terminal domains of the four core d H4) contain lysines that are acetylated by histone acetyltransferases (HATs) e deacetylases (HDACs) (1). Signaling resulting in acetylation/deacetylation actors, and other proteins affects a diverse array of cellular processes are and gene activity, cell growth, differentiation, and apoptosis (2-6). Recent that acetylation of lysine residues may be a widespread and important form in modification that affects thousands of proteins involved in control of cell evity, actin polymerization, and nuclear transport (7,8). The regulation of is impaired in cancer and polyglutamine diseases (9), and HDACs have for anti-cancer drugs currently in development (10).
Background Refere	nces	2. Allfrey, V.G. et al. (1964) <i>F</i> 3. Liu, L. et al. (1999) <i>Mol Ce</i> 4. Boyes, J. et al. (1998) <i>Nat</i> 5. Polevoda, B. and Sherma 6. Yoshida, M. et al. (2003) <i>F</i> 7. Kim, S.C. et al. (2006) <i>Mol</i> 8. Choudhary, C. et al. (2009) 9. Hughes, R.E. (2002) <i>Curr</i>	ure 396, 594-8. n, F. (2002) <i>Genome Biol</i> 3, reviews 0006. Prog Cell Cycle Res 5, 269-78. I Cell 23, 607-18. 9) Science 325, 834-40.
Species Reactivity		Species reactivity is determ	ined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer			lots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X C with gentle shaking, overnight.
Applications Key		W: Western Blotting E-P: Pe	ptide ELISA (DELFIA)
Cross-Reactivity Key	/	All: All Species Expected	

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