#9814

## Acetylated-Lysine (Ac-K<sup>2</sup>-100) MultiMab<sup>®</sup> Rabbit mAb mix



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

Applications:Reactivity:W, IP, ChIP, E-PAll	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information	For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.	
	<b>Application</b> Western Blotting Immunoprecipitation Chromatin IP Peptide ELISA (DELFIA)	<b>Dilution</b> 1:1000 1:100 1:50 1:1000
Storage		HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than at –20°C. Do not aliquot the antibody.
Specificity/Sensitivity	modified by acetylation on lysine in a wide range of se histones, p53, CBP, PCAF ar	) MultiMab <sup>®</sup> Rabbit mAb mix recognizes proteins post-translationally the ε-amine groups of lysine residues. The antibody recognizes acetylated quence contexts. It has been demonstrated to recognize acetylated id chemically acetylated BSA. The antibody has been shown to react with as ly acetylated BSA while not recognizing up to 25 μg of non-acetylated BSA.
Source / Purification	clones in optimized ratios f based on motif recognition	nal mix antibodies are prepared by combining individual rabbit monoclonal or the approved applications. Each antibody in the mix is carefully selected and performance in multiple assays. Each mix is engineered to yield the of the modification being studied while ensuring a high degree of ion or motif.
Background	modification controlling pro histones (H2A, H2B, H3, and and deacetylated by histon of histones, transcription fa including chromatin structu proteomic surveys suggest of post-translational protei cycle and metabolism, long protein acetylation status is	hosphorylation of serine, threonine or tyrosine, is an important reversible otein 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 factors, 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 References	2. Allfrey, V.G. et al. (1964) <i>F</i> 3. Liu, L. et al. (1999) <i>Mol Co</i> 4. Boyes, J. et al. (1998) <i>Nat</i> 5. Polevoda, B. and Sherma 6. Yoshida, M. et al. (2003) <i>J</i> 7. Kim, S.C. et al. (2006) <i>Mo</i> 8. Choudhary, C. et al. (2009) 9. Hughes, R.E. (2002) <i>Curr</i>	<i>ure</i> 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) <i>Science</i> 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		munoprecipitation <b>ChIP:</b> Chromatin IP <b>E-P:</b> Peptide ELISA (DELFIA)

Cross-Reactivity Key	All: All Species Expected
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