

Acetyl-Lysine Monoclonal Antibody

CATALOG NO:	A1029-100
AMOUNT:	100 µg (0.2 mg/ml)
ALTERNATE NAMES:	ACTB
CLONE:	5A1
HOST/ISOTYPE:	Mouse IgG
SPECIES REACTIVITY:	Human
PURIFICATION:	Affinity purified using protein G
FORM:	Liquid
FORMULATION:	Supplied in 0.01M Tris-HCl, pH 8.0, 0.15M NaCl, and 0.02% sodium azide. Protein was determined by OD280 absorbance.
STORAGE CONDITIONS:	Store at 4°C. For long term storage, aliquot and freeze at -20°C. Avoid repeated freeze/thaw cycles.
DESCRIPTION:	Post-translational modifications of proteins play critical roles in the regulation and function of many known biological processes. Proteins can be post-translationally modified in many different ways, and a common post-transcriptional modification of lysine involves acetylation. The conserved amino-terminal domains of the four core histones (H2A, H2B, H3, and H4) contain lysines that are acetylated by histone acetyltransferases (HATs) and deacetylated by histone deacetylases (HDACs). Protein post-translational reversible lysine Nε-acetylation and deacetylation have been recognized as an emerging intracellular signaling mechanism that plays critical roles in regulating gene transcription, cell-cycle progression, apoptosis, DNA repair, and cytoskeletal organization. The regulation of protein acetylation status is impaired in the pathologies of cancer and polyglutamine diseases, and HDACs have become promising targets for anti-cancer drugs currently in development.
APPLICATION:	Western blot: 0.5–2 µg/ml Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

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