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Product datasheet for AM03158PU-N

Acetylated Lysine Mouse Monoclonal Antibody [Clone ID: 7F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7F8
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry. Western blot: 1 µg/ml was sufficient for detection of 20 µg Acetylated Chicken Erythrocyte Histones.
Reactivity:	Bovine, Birds
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Acetylated KLH
Specificity:	Detects proteins containing Acetylated lysine residues in ELISA and Western Blots. Does not detect non-Acetylated lysine residues.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide in 50% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

View online »

Background:

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 posttranscriptional modification of Lysine involves acetylation (1).

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) (2).

Protein posttranslational 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 (3).

The regulation of protein acetylation status is impaired in the pathologies of cancer and polyglutamine diseases (4), and HDACs have become promising targets for anticancer drugs currently in development (5).

Synonyms:

AcK, acetyl Lysine, acetyl-Lysine