

Product datasheet for **AP03035BT-N**

Acetylated Lysine Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IP, WB
Recommended Dilution:	ELISA. Western blot: A 1/250 dilution of this Biotin conjugated antibody AP03035BT-N was sufficient to detect the acetylated histone from TSA treated mouse spleen cell in western blot analysis (Ref.6). Immunofluorescence. Immunoprecipitation (Ref.7)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Acetylated KLH
Specificity:	This antibody detects proteins containing Acetylated Lysine residues in SDS-PAGE immunoblots. No reaction to Non-Acetylated proteins.
Formulation:	PBS Label: Biotin State: Liquid purified Ig fraction Stabilizer: 50% Glycerol Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Biotin
Storage:	Store 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.



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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 N ϵ -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