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Monoclonal Antibody to Acetylated Lysine - Aff - Purified

Alternate names: AcK, acetyl Lysine, acetyl-Lysine

Catalog No.: AM33097PU-N

Quantity: 0.1 mg
Concentration: 0.5 mg/ml

Background: Proteins are reversibly and dynamically acetylated on the ε-amino group of lysine by

acetyltransferases and deacetylated by deacetylases. This post-translational modification can regulate protein function (interactions with other proteins and DNA binding). Histones

and transcription factors (PCAF, p53, p300, etc) appear to be the major targets of acetytransferases. Acetylation is usually associated with chromatin remodeling and transcriptional activation, although in some cases (telomeres) it is associated with gene

silencing.

Structure: Proteins are acetylated by the reversible transfer of acetyl-CoA to the $\epsilon\text{-amino}$

group of lysine.

Function: Post-translational modification of proteins by acetyltransferases and

deacetylated by deacetylases to regulate protein-protein and protein-DNA interactions.

Host / Isotype: Mouse / IgG2b

Clone: 15G10

Immunogen: Acetylated protein mixture.

Format: State: Liquid purified IgG fraction

Purification: Affinity Chromatography

Buffer System: PBS, pH 7.2

Preservatives: 0.09% Sodium Azide

Applications: Western blot: Each lot of this antibody is quality control tested.

Recommended Dilutions: Use 5 µg per 5 ml antibody dilution buffer for each mini-gel.

Immunoprecipitation: 1/10-1/500.

Immunocytochemistry/Immunofluorescence: 1-4 µg/ml.

See also Application Reference 1.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: The *15G10* monoclonal antibody recognizes Acetylated Lysine residues on proteins.

Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

Shelf life: one year from despatch.

General Readings: 1. Koen YM, Sarma D, Hajovsky H et al. Protein Targets of Thioacetamide Metabolites in Rat

Hepatocytes Chem Res Toxicol 2013 Mar 20 [PMID: 23465048] (WB)

2. Wang S, Yan-Neale Y, Zeremski M, Cohen D. Transcription regulation by histone

For research and in vitro use only. Not for diagnostic or therapeutic work.

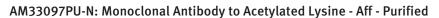
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

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deacetylases. Novartis Found Symp. 2004;259:238-45; discussion 245-8, 285-8. PubMed PMID: 15171258.

- 3. Legube G, Trouche D. Regulating histone acetyltransferases and deacetylases. EMBO Rep. 2003 Oct;4(10):944-7. PubMed PMID: 14528264.
- 4. Chen LF, Greene WC. Regulation of distinct biological activities of the NF-kappaB transcription factor complex by acetylation. J Mol Med (Berl). 2003 Sep;81(9):549-57. Epub 2003 Aug 15. PubMed PMID: 12920522.

Pictures:

Untreated Hela cells (lane 1) and sodium butyrate-treated Hela cells (24 hr treatment, lane 2) were lysed and cell extracts resolved by electrophoresis, transferred to nitrocellulose and probed with anti-acetylated lysine antibody (clone 15G10). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence system.

