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Anti-Acetylated Lysine Antibody [7F8]

Mouse Anti- Acetylated Lysine Monoclonal IgG1
Catalog No. SMC-153



Discovery through partnership | Excellence through quality

Overview

Product Name

Acetylated Lysine Antibody

Description

Mouse Anti- Acetylated Lysine Monoclonal IgG1

Species Reactivity

Species Independent. Bovine albumin and avian histones were tested.

Applications

WB, IHC, ICC/IF, IP, ELISA

Antibody Dilution

WB (1:1000), IHC (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen

Acetylated KLH

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

7F8

Isotype

IgG1

Specificity

Detects proteins containing acetylated lysine residues in ELISA and western blots. Does not detect non-acetylated lysine residues.

Cite This Product

Mouse Anti- Acetylated Lysine Monoclonal, Clone 7F8 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-153)

Certificate Of Analysis

1 µg of SMC-153 was sufficient to detect acetylated chicken erythrocyte histones (sodium butyrate-treated) using 20 µg total protein, on western blot by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Acetyl Lysine Antibody, Acetylated lysine Antibody, Lysine Antibody

Research Areas

Acetylation, Cell Signaling, Post-translational Modifications

Cellular Localization

Nucleus

Scientific Background

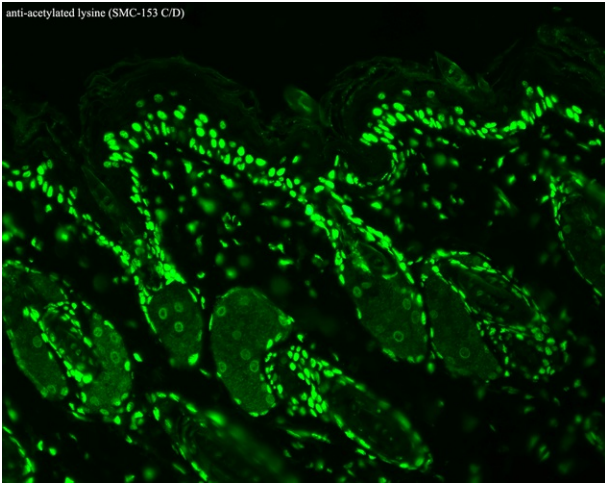
Post-translational modifications of proteins play critical roles in the regulation and function of many known biological processes. Proteins can be post-translationally modified in many different ways, and a common post-transcriptional modification of Lysine involves acetylation (1). The conserved amino-terminal 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 development (5).

References

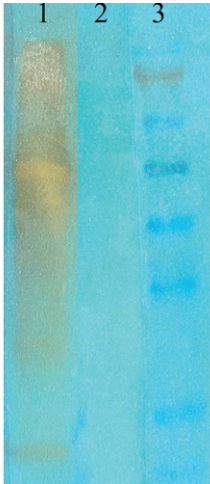
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 2. Hassig, C.A. and Schreiber, S.L. (1997). *Curr. Opin. Chem. Biol.* 1(3): 300-308.
 3. Yang XJ. (2004). *Bioessays* 26:1076-1087.
 4. Hughes, R.E. (2002). *Curr. Biol.* 12: R141-R143.
 5. Vigushin, D.M. and Coombes, R.C. (2004). *Curr. Cancer Drug Targets* 4: 205-218.
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Product Images

anti-acetylated lysine (SMC-153 C/D)



Immunohistochemistry analysis using Mouse Anti-Acetylated Lysine Monoclonal Antibody, Clone 7F8 (SMC-153). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Acetylated Lysine Monoclonal Antibody (SMC-153) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western Blot analysis of acetylated lysine showing detection of Acetylated Lysine protein using Mouse Anti-Acetylated Lysine Monoclonal Antibody, Clone 7F8 (SMC-153). Primary Antibody: Mouse Anti-Acetylated Lysine Monoclonal Antibody (SMC-153) at 1:1000. (1) acetylated BSA (75ng of protein), (2) non-acetylated BSA, and (3) marker.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.