

**Acetylated Lysine Antibody**  
**Acetylated Lysine Antibody, Clone 7F8**  
**Catalog # ASM10077**

**Specification**

**Acetylated Lysine Antibody - Product Information**

Application	WB, IHC, ICC, IP, E
Host	Mouse
Isotype	IgG1
Clonality	Monoclonal
Format	Unconjugated

**Description**

Mouse Anti- Acetylated Lysine Monoclonal IgG1

**Target/Specificity**

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

**Other Names**

Acetyl Lysine Antibody, Acetylated lysine Antibody, Lysine Antibody

**Immunogen**

Acetylated KLH

**Purification**

Protein G Purified

**Storage**

-20°C

**Storage Buffer**

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

**Shipping Temperature**

Blue Ice or 4°C

**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.

**Cellular Localization**

Nucleus

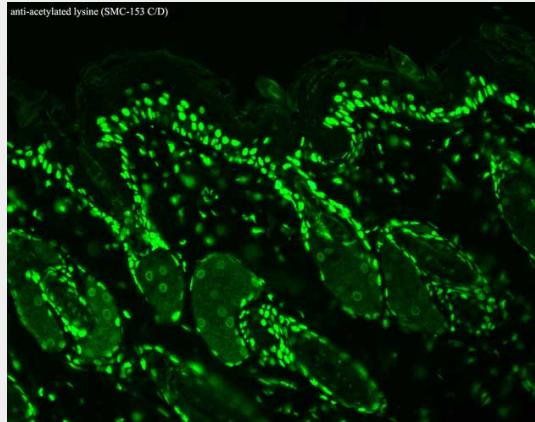
**Acetylated Lysine Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

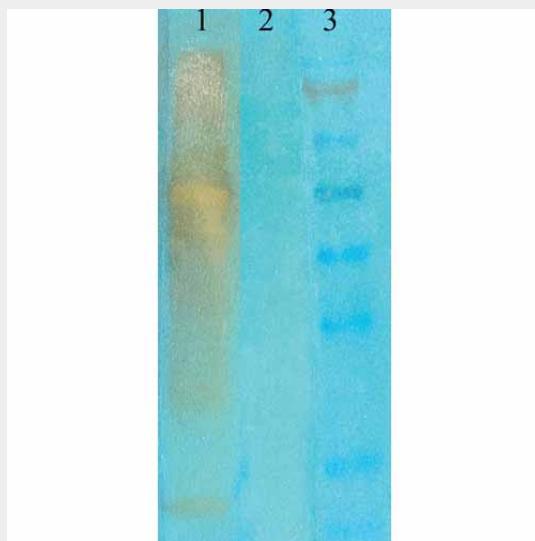
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Acetylated Lysine Antibody - Images



Immunohistochemistry analysis using Mouse Anti-Acetylated Lysine Monoclonal Antibody, Clone 7F8 (ASM10077). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Acetylated Lysine Monoclonal Antibody (ASM10077) 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 (ASM10077). Primary Antibody: Mouse Anti-Acetylated Lysine Monoclonal Antibody (ASM10077) at 1:1000. (1) acetylated BSA (75ng of protein), (2) non-acetylated BSA, and (3) marker.

### Acetylated Lysine Antibody - 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 $\epsilon$  development (5).

### Acetylated Lysine Antibody - References

1. Yang XJ. (2005). Oncogene. 24:1653-1662.
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.