

# Anti-Acetylated Lysine

Catalog# SPC-155F

Size: 400µl

PO Box 30244, Suite 405,  
3989 Quadra Street,  
Victoria, BC V8X 5E1, Canada

This product is for *in vitro* research use only and is not intended for use in humans or animals

## StressMarq

Biosciences Inc.

Orders ● [sales@stressmarq.com](mailto:sales@stressmarq.com)

Tel: ● +1 250 294 9065

Fax: ● +1 250 294 9025

Email ● [info@stressmarq.com](mailto:info@stressmarq.com)

Web ● [www.stressmarq.com](http://www.stressmarq.com)

Product	Rabbit anti-acetylated lysine antibody; polyclonal
Clone	N/A
Immunogen	Acetylated KLH Conjugated
Host and Subclass	Rabbit polyclonal
Cited Applications	WB (6), IP (7), ELISA, IF
Specificity	Detects proteins containing acetylated lysine residues in SDS-PAGE immunoblots.
Species cross-reactivity	Acetylated lysine residues. No reaction to non-acetylated proteins.
Format	Rabbit immunoglobulin in PBS pH7, in 50% glycerol. Affinity Purified.
Concentration	250µg/mL; 1:250 dilution for WB
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

### Selected 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.
6. Chan, H.M. *et al.* (2001). *Nat. Cell Biol.* 3: 667-674.
7. Martinez-Balbas, M.A. *et al.* (2000). *EMBO J.* 19: 662-671.

### Certificate of Analysis

\*\*\*\*\*

A 1/250 dilution of SPC-155 was sufficient to detect the acetylated histone from TSA treated mouse spleen cell in western blot analysis.

\*\*\*\*\*

### 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*<sup>ε</sup>-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 anti-cancer drugs currently in development (5).

# Material Safety Data Sheet

## Anti-Acetylated Lysine (Polyclonal Antibody) SPC-155

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

---

### Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
None		

---

### Physical Data

This product consists of rabbit immunoglobulin in PBS in 50% glycerol shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

---

### Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

---

### Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

---

### Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

---

### Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

---

### First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences  
Creation Date: 07/07/2007