

**Product Name**

Mouse Anti-Acetylated Lysine Monoclonal  
Antibody Hybridoma Cell Line

**CAT No.**

CC0103SC



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**Applications**

ELISA (E), Western (WB), binds Protein-G

**Formulation**

$2 \times 10^6 - 2 \times 10^7$  cells/ml in freezing media. 10% dimethylsulfoxide (DMSO) and 90% Fetal Bovine Serum (FBS). Product is frozen.

**Cross Reactivity**

Pan Specific. This antibody will detect proteins containing acetylated lysine residues in ELISA and Western Blots. Bovine albumin and Avian histones were tested.

**Clone Information**

*Designation* – 7F8

*Organism* – *Mus musculus* (B Cell)

*Growth* – suspension DMEM +FBS

*Myeloma* – SP2/0 *Mus musculus*

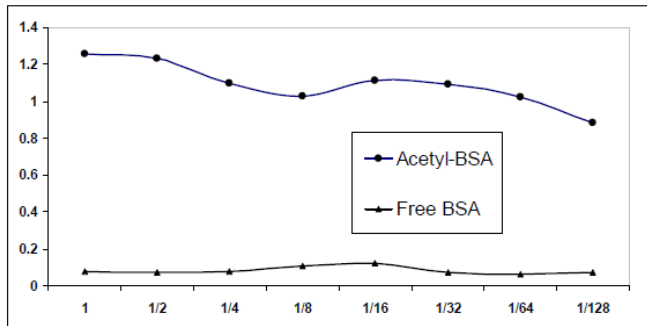
*Morphology* – lymphoblast

*Doubling time* – 18 to 24 hours

**Background**

Acetylation of lysine is an important, reversible posttranslational modification. Lysine acetylation is a dynamic process that is used to regulate protein-DNA and protein-protein interactions (1). Lysine acetylation involves the reversible transfer of acetylCoA to the  $\epsilon$ - amino group of lysine, which neutralizes its positive charge (2).

Indirect ELISA Data: Clone 7F8, absorbance 450 nm

**Concentration**

10ml of a log phase culture ( $2 \times 10^5$  cells/ml) per  
1mL vial - frozen

**Immunogen**

Acetylated keyhole limpet hemocyanin (KLH) was used as immunogen. The cell line was screened against non acetylated KLH as a control in addition to BSA and histones.

**Stability**

Store in liquid nitrogen.

**Host/Isotype**

IgG1 / mouse

**Sample Data**

Chicken erythrocytes histones were separated by Triton-Acetic Acid-Urea (1) non-treated and (2) Sodium butyrate (5 mM) treated. Each lane contained 20 ug of total protein. PVDF membrane was probed with mouse monoclonal antibody 7F8 from tissue culture supernatant (diluted 1:5). Mouse mAb 7F8 was detected with a goat anti-mouse HRPO secondary antibody (1:50000) and developed by chemiluminescence.

**References**

1. Bannister AJ, (2000) *Cell Mol Life Sci* 57(8-9): 1184-1192.
2. Loidl P. (1994) *Chromosoma* 103(7): 441-449.

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