

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*

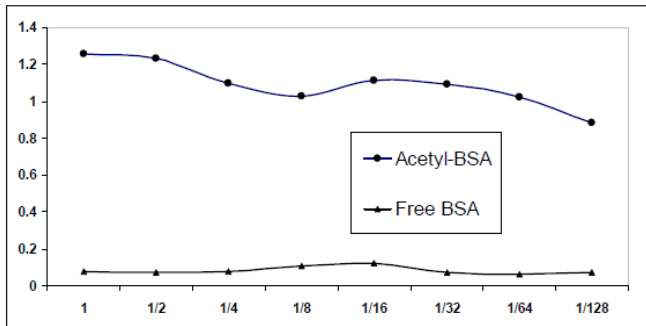
Morphology – lymphoblast

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 ϵ - 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 (2×10^5 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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