

Anti-Acetylated Lysine Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56455 (clone 7F8)

Size: 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

Acetylation is a common post-translational modification of lysine. 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). Post-translational acetylation and deacetylation of lysine have been recognized as intracellular signals that are critical in regulating gene transcription, cell cycle progression, apoptosis, DNA repair, and cytoskeletal organization. Regulation of protein acetylation is impaired in some cancers and polyglutamine diseases, and HDACs are promising targets for anti-cancer drugs currently under investigation.

SPECIFICATION SUMMARY

Antigen: Acetylated KLH

Host Species: Mouse

Antibody Class: IgG1

Preservatives: 0.09% sodium azide

Other additives: 50% glycerol

SPECIFICITY

This antibody recognizes proteins containing acetylated lysine residues. It does not react with non-acetylated lysine residues.

APPLICATIONS

Immunoblotting: use at 1ug/ml.

These are recommended concentrations.

User should determine optimal concentrations for their application.

Positive control: Acetylated chicken erythrocyte histones.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.