



Product Specification Sheet

Acetylated Lysine Antibodies

Cat. Ac-KLH	Acetylated KLH conjugates	SIZE: 1mg, 5mg
Cat. Ac-LYS-A	Rabbit Anti-acetylated Lysine IgG, (aff pure)	SIZE: 100 ug
Cat. Ac-BSA	Acetylated BSA conjugates	SIZE: 1mg, 5mg
Cat. Ac-OVA	Acetylated OVA conjugates	SIZE: 1mg, 5mg

DNA transcription cannot take place unless DNA is unwound from the nucleosomes. Histones are acetylated at lysine residues by Histone acetyltransferases (HATs) and deacetylated by Histone deacetylase (HDACs). It has been suggested that acetylation of non-histone proteins (e.g., transcription factors) and histones may be involved. Acetylation of the proteins may result in signal transduction within the chromatic domains. Histones are acetylated by Histone acetyltransferases (HATs) and deacetylated by Histone deacetylase (HDACs).

Recommended Usage

Western Blotting (1-2 ug/ml using Chemiluminescence technique). Antibody recognizes all Acetylated Lysine proteins.
ELISA : 0.1-1 ug/ml using 50-100 ng control antigen/well.

Histochemistry & Immunofluorescence: not tested. We recommend the use of affinity pure antibody at 2-5 ug/ml.

General References: Kikugawa, Mitsui, Sakamoto (1990). Journal Tetrahedron Letters 31 (2): 243-246.

Source of Antigen and Antibodies

Antigen	Keyhole limpet hemocyanin was acetylated at the lysine residues.
Ab Host/type	Rabbit, Polyclonal IgG, purified over antigen-agarose (Cat # Ac-LYS-A)
2-Ab	Cat # SA-20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
-ve	Cat # SA-20009-1, Rabbit (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

*This product is for In vitro research use only.

Ac-OVA, BSA, KLH, Lysine 130409VVP

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution 50 ug/50 ul lyophilized powder

Buffer: 100 mM Tris, pH 7.5, and 0.05% sodium azide
Reconstitute powder in the original vol. of water

Control/blocking peptide

100 ug/100 ul solution lyophilized powder

Buffer: PBS, pH 7.5 and 0.05% sodium azide
Reconstitute powder in the original vol. of water

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.