

# Pan Acetyl-Lysine Mouse mAb

Catalog No.: A1525

## Basic Information

### Observed MW

### Calculated MW

### Category

Primary antibody

### Applications

WB,(ELISA)

### Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

### CloneNo number

AMC0491

## Background

Acetylation of lysine, like phosphorylation of serine, threonine or tyrosine, is an important reversible modification controlling protein activity. 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) (PMID: 9667866). Signaling resulting in acetylation/deacetylation of histones, transcription factors, and other proteins affects a diverse array of cellular processes including chromatin structure and gene activity, cell growth, differentiation, and apoptosis (PMID: 14593721). Recent proteomic surveys suggest that acetylation of lysine residues may be a widespread and important form of post-translational protein modification that affects thousands of proteins involved in control of cell cycle and metabolism, longevity, actin polymerization, and nuclear transport (PMID: 19608861). The regulation of protein acetylation status is impaired in cancer and polyglutamine diseases (PMID: 11864588), and HDACs have become promising targets for anti-cancer drugs currently in development (PMID: 15032670).

## Recommended Dilutions

**WB** 1:500 - 1:1000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

### Swiss Prot

### Immunogen

Recombinant fusion protein corresponding to a sequence containing acetylated K.

### Synonyms

## Contact

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## Product Information

### Source

Mouse

### Isotype

IgG1

### Purification

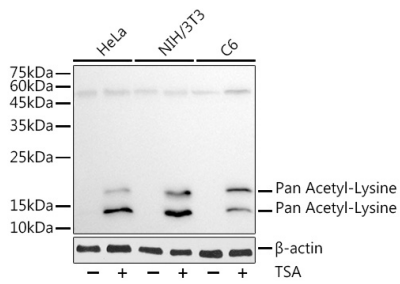
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of various lysates using Pan Acetyl-Lysine Mouse mAb (A1525) at 1:1000 dilution. HeLa, NIH/3T3 and C6 cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.