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Pan Acetyl-Lysine Mouse mAb

Catalog No.: A1525

Basic Information

Observed MW

Calculated MW

Category
Primary antibody

Applications
ELISA,WB

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

Immunogen Information

Gene ID

Swiss Prot

Immunogen
Recombinant fusion protein corresponding to a sequence containing acetylated K.

Synonyms

Contact

400-999-6126

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Product Information

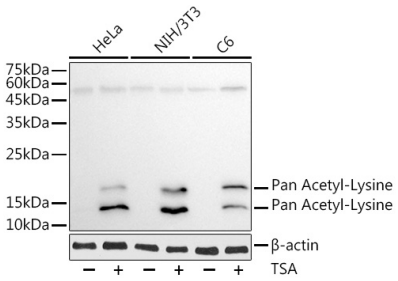
Source
Mouse

Isotype
IgG1

Purification
Affinity purification

Storage
Store at -20℃. 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 uM) at 37℃ for 18 hours.
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.