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Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody

(Catalog # A-4026)

Background
Histone H3 along with H2A, H2B and H4 is involved in the structure of chromatin in eukaryotic cells. Histone H3 can undergo several different types of epigenetic modifications that influence cellular processes. These modifications, including acetylation, phosphorylation, methylation, ubiquitination, and ADP-ribosylation, occur on the N-terminal tail domains of histone H3, which results in remodeling of the nucleosome structure into an open conformation more accessible to transcription complexes. In most species, histone H3 is primarily acetylated at lysine 9, 14, 18, 23, and can also be acetylated at lysine 56.

Description
Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

Specificity
Mouse, Rat, Human, Broad Range

Isotype
IgG

Uniprot ID
Q16695/P68431

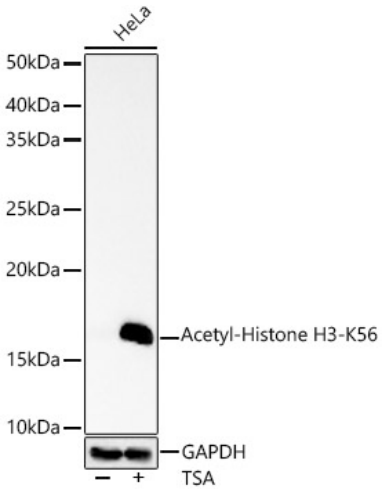
Purification
Affinity Purified

Immunogen
A synthetic acetylated peptide around K56 of human Histone H3 (NP_003520.1)

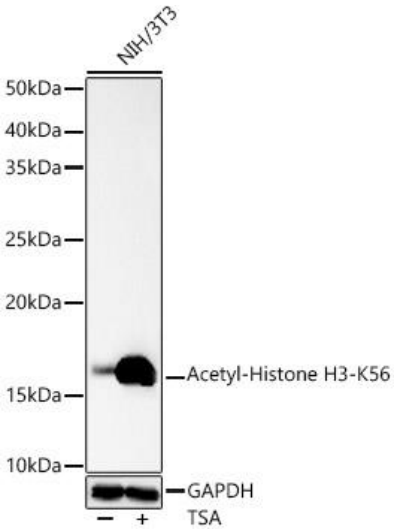
Storage
Shipped at 4°C. Upon receipt, store at -20°C. Avoid repeated freeze.

Alternative Names
H3K56ac antibody, H3K56a antibody

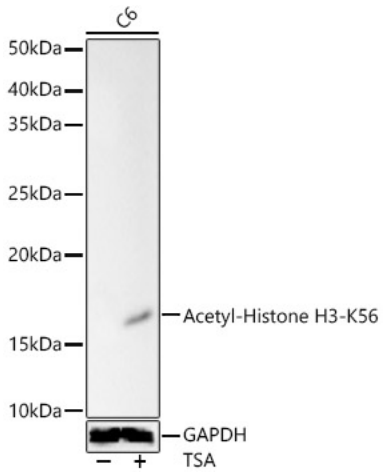
Application
WB, IF/ICC, ChIP, ELISA; Recommended dilution: WB 1:500 - 1:1000, IF/ICC 1:50 - 1:200, ChIP 5µg antibody for 5µg-10µg of Chromatin, ELISA - recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.



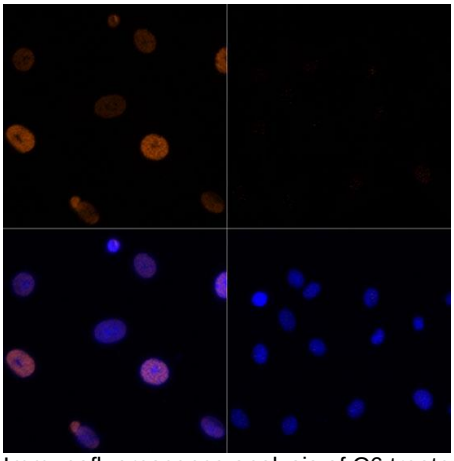
Western blot analysis of lysates from HeLa cells, using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody at 1:10000 dilution. HeLa cells were treated by TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Exposure time: 30s.



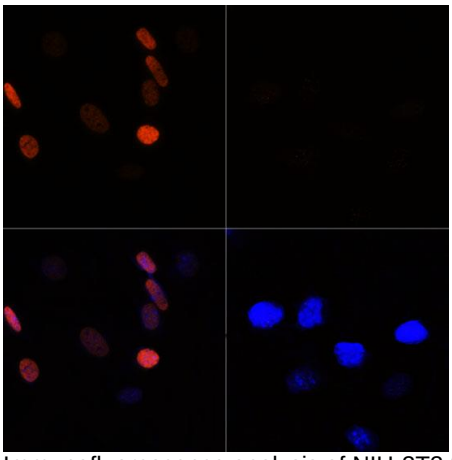
Western blot analysis of lysates from NIH/3T3 cells, using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody at 1:10000 dilution. NIH/3T3 cells were treated by TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Exposure time: 30s.



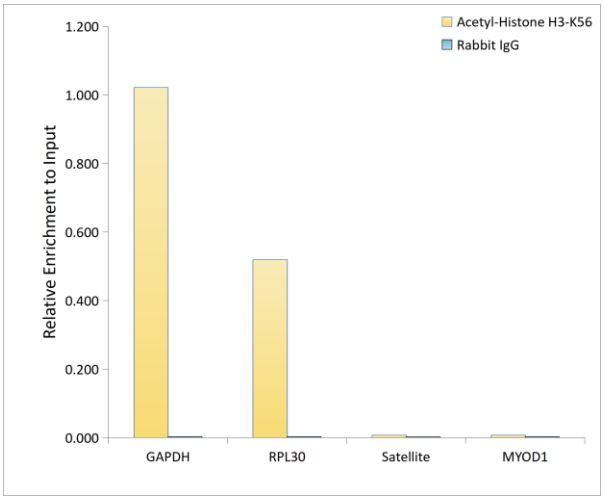
Western blot analysis of lysates from C6 cells, using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody at 1:10000 dilution. C6 cells were treated by TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Exposure time: 30s.



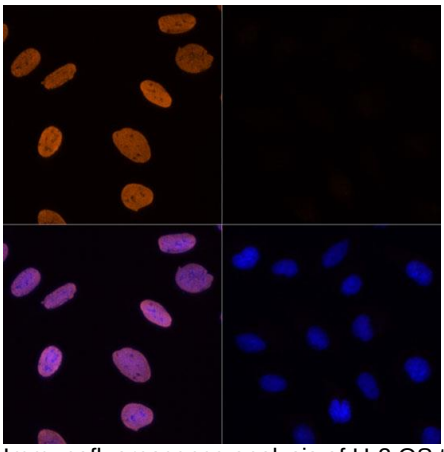
Immunofluorescence analysis of C6 treated by TSA jia C6 cells using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody at dilution of 100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH-3T3 treated by TSA jia NIH-3T3 cells using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody at dilution of 100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of extracts of Hale cells, using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Immunofluorescence analysis of U-2 OS treated by TSA jia U-2 OS cells using Histone H3K56ac (Acetyl H3K56) Polyclonal Antibody at dilution of 100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.