

# H3K18ac Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic acetylated peptide corresponding to residues surrounding Lys18 of human histone H3
Form	Liquid
Concentration	27 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10977245

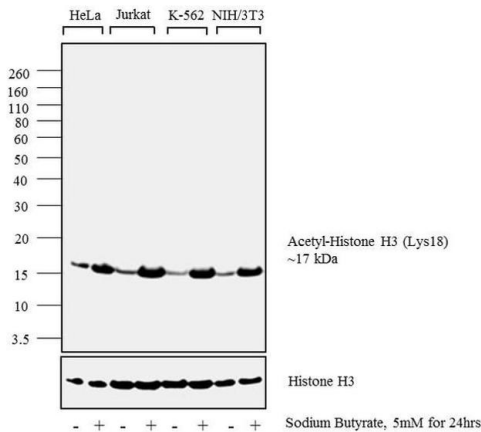
Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:800	-
Immunocytochemistry (ICC/IF)	1:250	-
Peptide array (Array)	1:2,000	-

## Product Specific Information

It is not recommended to aliquot this antibody.

This antibody is not cross-reactive with other acetylated histones.

Product Images For H3K18ac Polyclonal Antibody

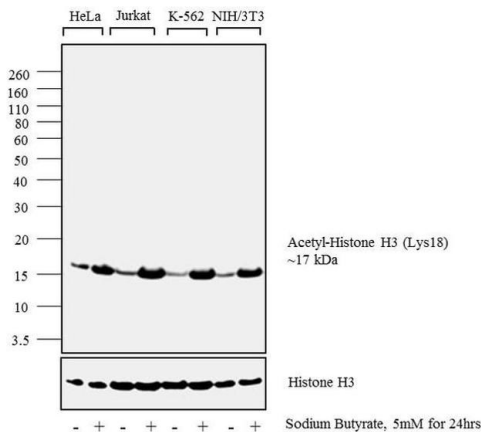


H3K18ac Antibody (PA5-17801) in WB

Western blot analysis was performed on acid extracts of HeLa (Lane 1), HeLa treated with sodium butyrate (5mM Sodium butyrate for 24 hr) (Lane 2), Jurkat (Lane 3), Jurkat treated with sodium butyrate (5mM Sodium butyrate for 24 hr) (Lane 4), K-562 (Lane 5), K-562 treated with sodium butyrate (5mM Sodium butyrate for 24 hr) (Lane 6), NIH/3T3 (Lane 7) and NIH/3T3 treated with sodium butyrate (5mM Sodium butyrate for 24 hr) (Lane 8). The blot was probed with Anti-Acetyl Histone H3 (Lys18) (Product # PA5-17801, 1:2000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg /mL, 1:4000 dilution). A 17 kDa band corresponding to Acetyl-Histone H3 (Lys18) was observed and was enhanced upon treatment across the cell lines tested.

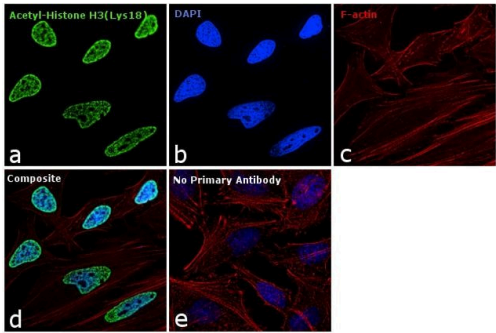
H3K18ac Antibody (PA5-17801)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis using Acetyl-Histone H3 (Lys18) antibody (Product # PA5-17801), shows increased expression of acetylated Histone upon Sodium Butyrate treatment. {TM}



H3K18ac Antibody (PA5-17801) in ICC/IF

Immunofluorescence analysis of Acetyl-Histone H3 (Lys18) was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Acetyl-Histone H3 (Lys18) Rabbit Polyclonal Antibody (Product # PA5-17801) at 1:250 dilution in 0.1% BSA, incubated overnight at 4 degree Celsius and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e shows control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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