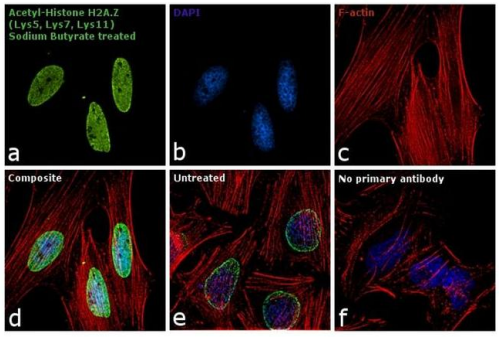
# H2A.Zac pan-acetyl (K4,K7,K11) Polyclonal Antibody

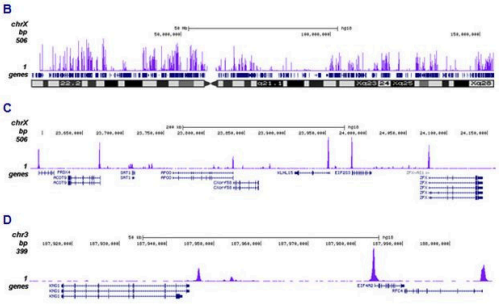
| Product Details | |
|---|---|
| Size | 50 µg |
| Species Reactivity | Human |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | KLH-conjugated synthetic peptide corresponding to human histone H2A.Z acetylated at lysines 4, 7, and 11. |
| Form | Liquid |
| Concentration | 1.4 mg/mL |
| Purification | Antigen affinity chromatography |
| Storage buffer | PBS, pH 7.4 |
| Contains | 0.05% sodium azide, 0.05% ProClin 300 |
| Storage conditions | -20°C or -80°C if preferred |
| RRID | AB_2609565 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Immunocytochemistry (ICC/IF) | 1:500 | - |
| ELISA (ELISA) | 1:5,000 | - |
| ChIP assay (ChIP) | 1 µg/1x10^6 cells | - |
| ChIP-sequencing (ChIP-Seq) | Assay-dependent | - |

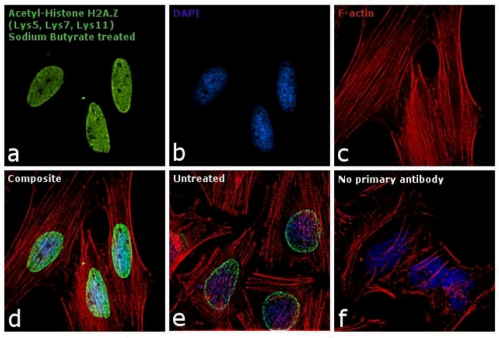
## Product Images For H2A.Zac pan-acetyl (K4,K7,K11) Polyclonal Antibody




**H2A.Zac pan-acetyl (K4,K7,K11) Antibody (PA5-40095)**
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis using Acetyl-Histone H2A.Z (Lys4, Lys7, Lys11) antibody (Product # PA5-40095), shows increased expression of acetylated Histone upon Sodium Butyrate treatment in HeLa cell line. {TM}




**H2A.Zac pan-acetyl (K4,K7,K11) Antibody (PA5-40095) in ChIP-seq**
ChIP was performed with 1 µg of Acetyl-Histone H2A.Z (Lys4 + Lys7 +Lys11) polyclonal antibody (Product # PA5-40095) on sheared chromatin from 1 million HeLaS3 cells. IgG (2 µg/IP) was used as a negative IP control. The IP'd DNA was analyzed by QPCR. The IP'd DNA was subsequently analyzed with a Genome Analyzer. The 36 bp tags were aligned to the human genome using the ELAND algorithm. Figure 2 shows the peak distribution along the complete sequence and a 600 kb region of the X-chromosome (figure 2B and C) and in 100 kb regions surrounding the EIF4A2, ACTB and GAPDH genes (figure 2D, E and F). These results clearly show an enrichment of the H2A.Z acetylation at the promoters of active genes.




**H2A.Zac pan-acetyl (K4,K7,K11) Antibody (PA5-40095) in ICC/IF**
Immunofluorescence analysis of Acetyl-Histone H2A.Z (Lys4, Lys7, Lys11) was performed using 70% confluent log phase HeLa cells treated with sodium butyrate. 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 H2A.Z (Lys4, Lys7, Lys11) Rabbit Polyclonal Antibody (Product # PA5-40095) at 1:100 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 represents the untreated cells with relatively lower expression of Acetyl-Histone H2A.Z (Lys4, Lys7, Lys11). Panel f shows control cells with no primary antibody to assess background. The images were captured at 60X magnification.

## View more figures on thermofisher.com