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# Anti-Histone H2A (Acetyl-K7) Antibody

Catalog # AP54109

## Product Information

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|---|---|
| **Application** | WB, IF/IC |
| **Primary Accession** | P0C0S5 |
| **Other Accession** | Q71UI9 |
| **Reactivity** | Human, Mouse, Rat, Bovine, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 13553 |

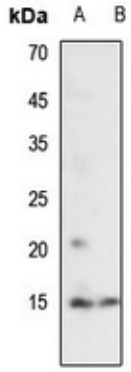
## Additional Information

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|---|---|
| **Gene ID** | 3015 |
| **Other Names** | H2AZ; Histone H2A.Z; H2A/z |
| **Target/Specificity** | KLH-conjugated synthetic acetylated peptide corresponding to residues surrounding K7 of human Histone H2A protein. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

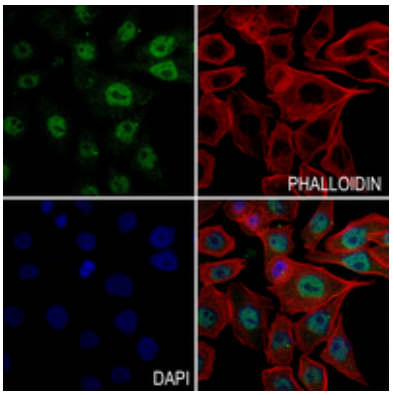
## Protein Information

| | |
|---|---|
| **Name** | H2AZ1 ( HGNC:4741) |
| **Function** | Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post- translational modifications of histones, also called histone code, and nucleosome remodeling. May be involved in the formation of constitutive heterochromatin. May be required for chromosome segregation during cell division. |
| **Cellular Location** | Nucleus. Chromosome. |

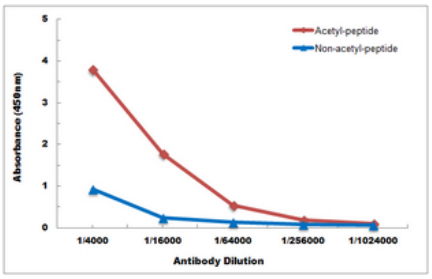
## Images




Western blot analysis of Histone H2A (Acetyl-K7) expression in DLD (A), U2OS (B) whole cell lysates. (Predicted band size: 13 kD; Observed band size: 14 kD)




Immunofluorescent analysis of Histone H2A (Acetyl-K7) staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).




Direct ELISA antibody dose-response curve using Anti-Histone H2A (Acetyl-K7) Antibody. Antigen (Acetyl-peptide and non-acetyl-peptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.