

## Product datasheet for **TA377045S**

### **HIST1H2AK (HIST1H2AI) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB,1:500 - 1:2000 IF,1:50 - 1:100
Reactivity:	Human, Mouse, Rat, Other (Wide Range)
Modifications:	Acetyl K5
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic acetylated peptide around K5 of human Histone H2A (NP_003508.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	14kDa
Gene Name:	histone cluster 1, H2ai
Database Link:	<a href="#">Entrez Gene 8329 Human POC0S8</a>



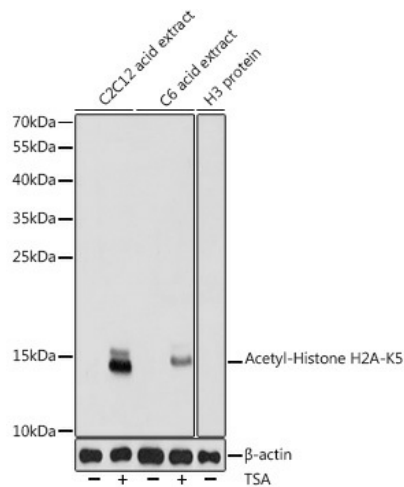
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**Background:**

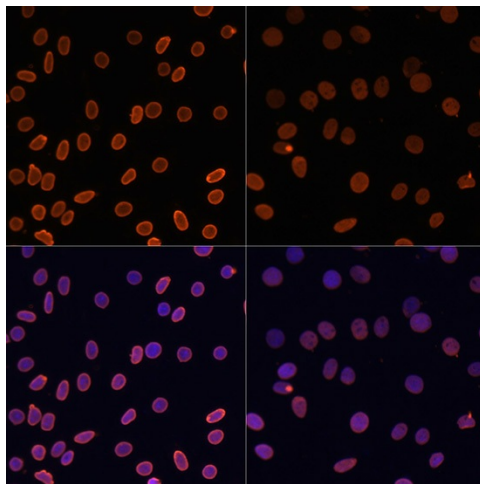
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3.

**Synonyms:**

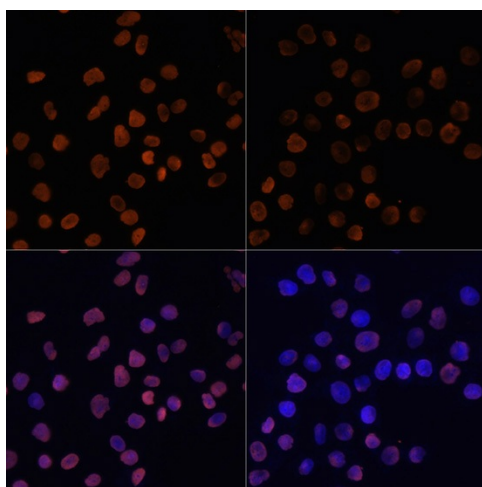
FLJ92027; H2A.1; H2A/c; H2A/p; H2AFC; H2AFD; H2AFI; H2AFN; H2AFP

**Product images:**


Western blot analysis of extracts of various cell lines, using Acetyl-Histone H2A-K5 antibody ([TA377045]) at 1:1000 dilution. C2C12 cells and C6 cells were treated by TSA (1 uM) at 37°C for 18 hours. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 1s.



Immunofluorescence analysis of C6 cells using Acetyl-Histone H2A-K5 antibody ([TA377045]) at dilution of 1:100. C6 cells were treated by TSA (1 uM) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Acetyl-Histone H2A-K5 antibody ([TA377045]) at dilution of 1:100. HeLa cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours. Blue: DAPI for nuclear staining.