

## Product datasheet for **TA377082**

### **H3FA (HIST1H3A) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ChIP, Dot, WB
<b>Recommended Dilution:</b>	WB,1:500 - 1:2000
<b>Reactivity:</b>	Human, Mouse, Rat, Other (Wide Range)
<b>Modifications:</b>	Acetyl K27
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	A synthetic acetylated peptide around K27 of human Histone H3.
<b>Formulation:</b>	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity purification
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	15kDa
<b>Gene Name:</b>	histone cluster 1, H3a
<b>Database Link:</b>	<a href="#">Entrez Gene 8350 Human P68431</a>



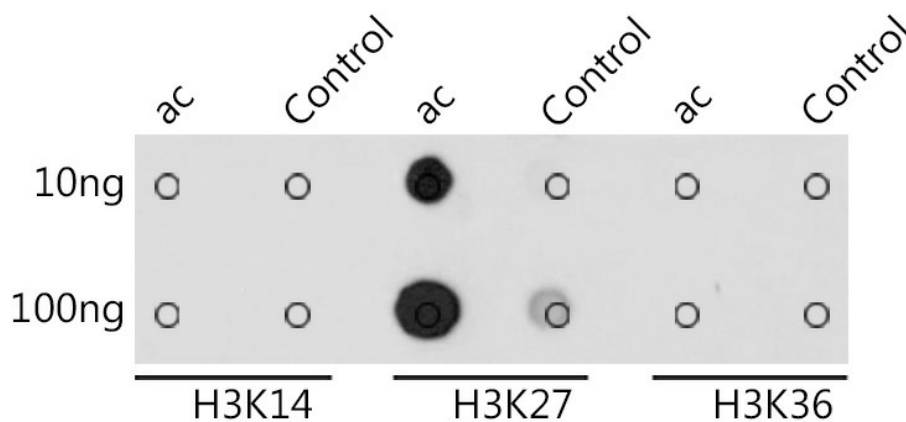
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**Background:**

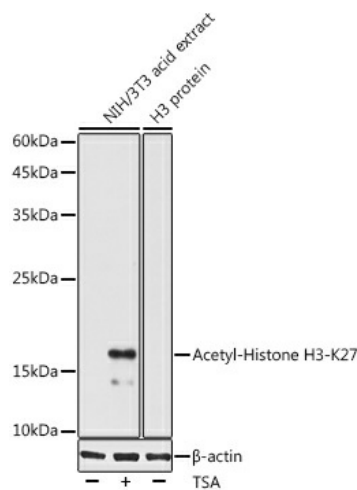
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

**Synonyms:**

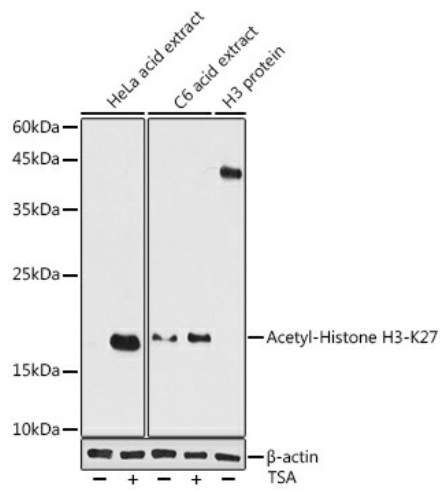
H3/A; H3/b; H3/c; H3/d; H3/f; H3/h; H3/i; H3/j; H3/k; H3/l; H3FA; H3FB; H3FC; H3FD; H3FE; H3FH; H3FI; H3FJ; H3FK; H3FL

**Product images:**


Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 antibody (TA377082) at 1:1000 dilution.



Western blot analysis of extracts of various cell lines, using Acetyl-Histone H3-K27 antibody (TA377082) at 1:1000 dilution. NIH/3T3 cells were treated by TSA (1  $\mu$ M) 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.



Western blot analysis of extracts of various cell lines, using Acetyl-Histone H3-K27 antibody (TA377082) at 1:1000 dilution. HeLa 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: 180s.