

## Product datasheet for **AP02665PU-S**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, WB
<b>Recommended Dilution:</b>	Western blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200.
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	The antiserum was produced against synthesized non-phosphopeptide derived from human Histone H3.1 around the phosphorylation site of Serine 10 (R-K-Sp-T-G).
<b>Specificity:</b>	This antibody detects endogenous levels of total Histone H3.1 protein.
<b>Formulation:</b>	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Immunoaffinity Chromatography using epitope-specific immunogen.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Gene Name:</b>	histone cluster 1, H3a
<b>Database Link:</b>	<a href="#">Entrez Gene 8350 Human P68431</a>



[View online »](#)

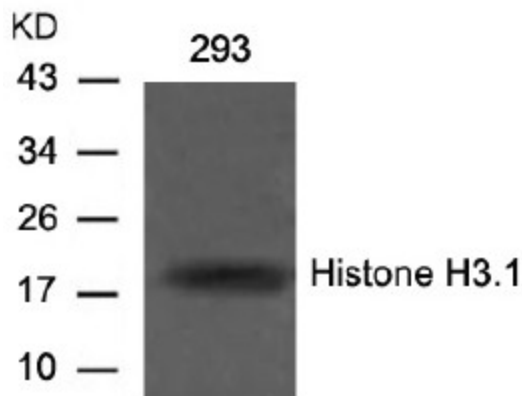
**Background:**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fibre is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures.

Covalent modifications of the canonical core histones, including acetylation, phosphorylation, methylation, and monoubiquitination are used to mark nucleosomes to create chromatin domains with a range of functions. The information encoded by histone modifications can contribute to the formation and/or maintenance of transcriptionally active and inactive chromatin in response to various signalling pathways.

**Synonyms:**

H3/a, H3/b, H3/c, H3/d, H3/f, H3/h, H3/i, H3/j, H3/k, H3/l, HIST1H3A, H3FA, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J

**Product images:**

Western Blot analysis of extracts from 293 cells using Histone H3.1 antibody

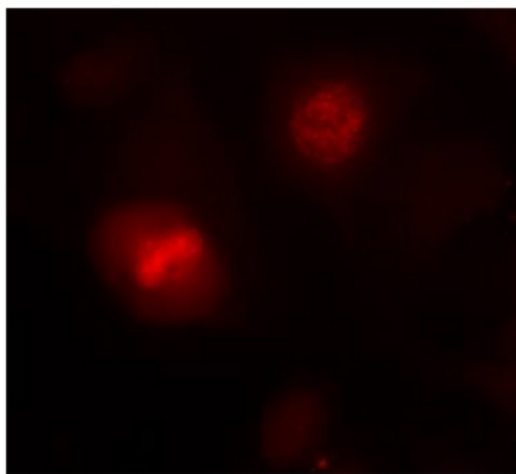


Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using Histone H3.1 antibody (Red).