

## Product datasheet for **AP20891PU-N**

### H3FA (HIST1H3A) pThr3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p-Histone H3.1 protein, only when phosphorylated at Thr3.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 17 kDa
Gene Name:	histone cluster 1, H3a
Database Link:	<u><a href="#">Entrez Gene 360198 Mouse</a></u> <u><a href="#">Entrez Gene 679994 Rat</a></u> <u><a href="#">Entrez Gene 8350 Human</a></u> <u><a href="#">P68431</a></u>



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**Background:**

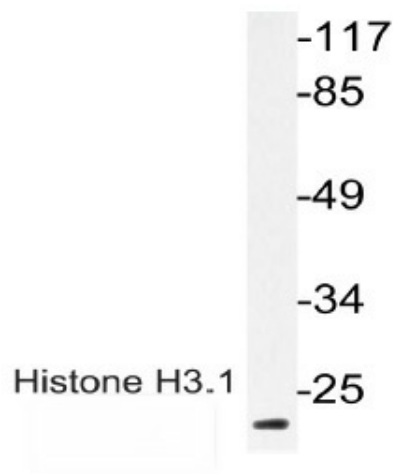
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fibre 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.

**Synonyms:**

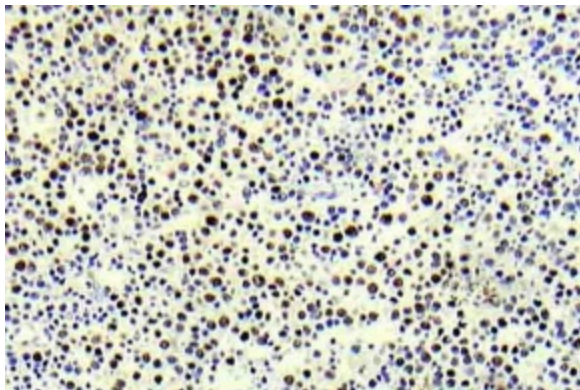
H3/a, H3/b, H3/c, H3/d, H3/f, H3/h, H3/i, H3/j, H3/k, H3/l, HIST1H3A, H3FA, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**

Western blot (WB) analysis of p-Histone H3.1 antibody (Cat.-No.: AP20891PU-N) in extracts from HuvEc Serum cells



Immunohistochemistry (IHC) analyzes of p-Histone H3.1 antibody (Cat.-No.: AP20891PU-N) in paraffin-embedded human malignant lymphoma tissue.