

## Product datasheet for **AP31733PU-N**

### Histone H3 Sheep Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, IP, WB
Recommended Dilution:	<b>Immunocytochemistry:</b> 1/100. <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Immunoprecipitation.</b> <b>Western Blot:</b> 1/300.
Reactivity:	Bovine, Human
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Intact Calf Histone H3 at 15.4 kD, 136 amino acids, complexed with RNA.
Specificity:	Recognizes Histone H3. Minimal cross-reactivity with linker Histone H1 and no cross-reactivity with Histone core proteins H2A, H2B, or H4.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



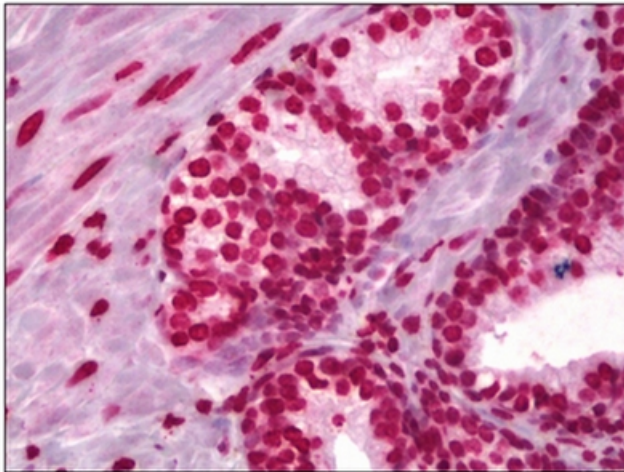
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**Background:**

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 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 member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

**Synonyms:**

H3 Histone family, HIST1H3

**Product images:**

Immunohistochemical analysis using Histone H3 antibody Cat.-No AP31733PU-N at 5 g/ml on Human Prostate tissue (Formalin-fixed, Paraffin-embedded).