

Product datasheet for **AP01181PU-N**

Histone H2B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunofluorescence: 1/50-1/200. Western Blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human Histone H2B.
Specificity:	This antibody detects endogenous levels of Histone H2B protein. (region surrounding Lys24)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
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:	~ 18 kDa



Background:

In eukaryotes, DNA is wrapped around histone octamers to form the basic unit of chromatin structure. The octamer is composed of histones H2A, H2B H3 and H4 and it associates with approximately 200 base pairs of DNA to form the nucleosome. The association of DNA with histones results in dense packing of chromatin, which restricts proteins involved in gene transcription from binding to DNA. Histone H1 is required for the condensation of nucleosome chains into higher order structures. Phosphorylation of Histone H1 is thought to be involved in this process, although the exact nature of this role has yet to be elucidated. Evidence suggests that Histone H1 is a part of a general repressor mechanism for stable repression of transcription, but it can also activate transcription of specific genes.

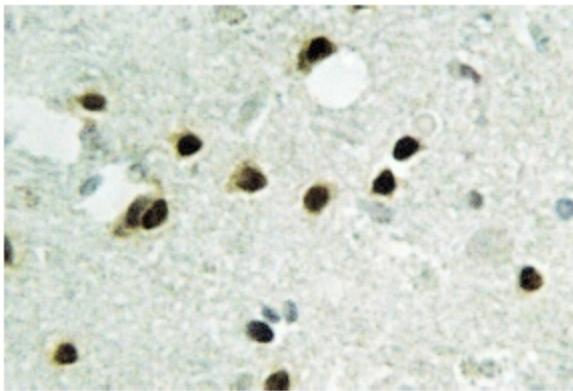
Synonyms:

H2B Histone Family, HIST1H2B

Product images:



Western blot (WB) analysis of Histone H2B Antibody (Cat.-No AP01181PU-N) in extracts from A549 cells.



Immunohistochemistry analysis of Histone H2B Antibody (Cat.-No AP01181PU-N) in paraffin-embedded human brain tissue.