

**HIST1H1B Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5231a****Specification**

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**HIST1H1B Antibody (N-term) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">P16401</a>
Other Accession	<a href="#">P02251</a>
Reactivity	Human
Predicted	Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22580
Antigen Region	33-60

**HIST1H1B Antibody (N-term) - Additional Information****Gene ID** 3009**Other Names**

Histone H15, Histone H1a, Histone H1b, Histone H1s-3, HIST1H1B, H1F5

**Target/Specificity**

This HIST1H1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-60 amino acids from the N-terminal region of human HIST1H1B.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HIST1H1B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HIST1H1B Antibody (N-term) - Protein Information****Name** H1-5 ([HGNC:4719](#))

**Function** Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber. Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers. Also acts as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation (By similarity).

**Cellular Location**

Nucleus. Chromosome. Note=Mainly localizes with heterochromatin (PubMed:15911621). Associates with actively transcribed chromatin and not heterochromatin (PubMed:10997781)

**Tissue Location**

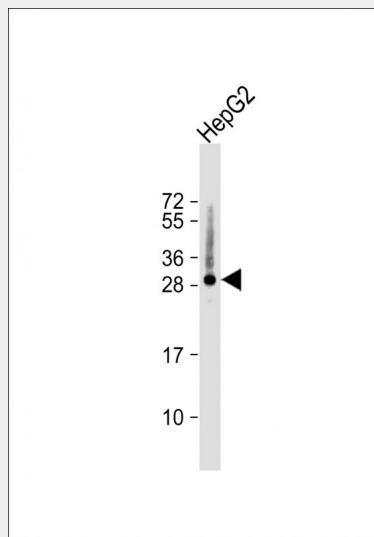
Ubiquitous. Expressed in the majority of the cell lines tested and in testis.

**HIST1H1B Antibody (N-term) - Protocols**

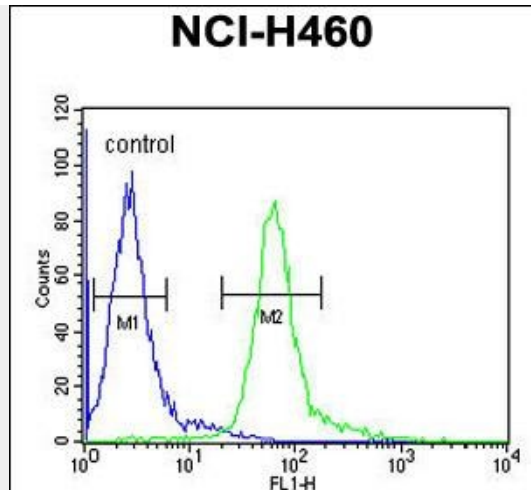
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HIST1H1B Antibody (N-term) - Images**



Anti-HIST1H1B Antibody (N-term) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



HIST1H1B Antibody (N-term) (Cat. #AP5231a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **HIST1H1B Antibody (N-term) - Background**

Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a member of the histone H1 family.

### **HIST1H1B Antibody (N-term) - References**

- Happel, N., et al. J. Mol. Biol. 386(2):339-350(2009)
- Trojer, P., et al. Cell 129(5):915-928(2007)
- Wisniewski, J.R., et al. Mol. Cell Proteomics 6(1):72-87(2007)