

**HIST1H2AB Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17445a****Specification**

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**HIST1H2AB Antibody (N-term) - Product Information**

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| Application       | <b>WB,E</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Primary Accession | <a href="#">P04908</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other Accession   | <a href="#">Q6GM86</a> , <a href="#">P27661</a> , <a href="#">P16104</a> , <a href="#">Q7ZUY3</a> , <a href="#">A9UMV8</a> ,<br><a href="#">Q8R1M2</a> , <a href="#">Q4R3X5</a> , <a href="#">Q9BTM1</a> , <a href="#">P70082</a> , <a href="#">Q3ZBX9</a> ,<br><a href="#">P02263</a> , <a href="#">Q4FZT6</a> , <a href="#">Q8BFU2</a> , <a href="#">Q7L7L0</a> , <a href="#">P35062</a> ,<br><a href="#">P06898</a> , <a href="#">Q64523</a> , <a href="#">Q16777</a> , <a href="#">A1A4R1</a> , <a href="#">Q64522</a> ,<br><a href="#">Q8IUE6</a> , <a href="#">P0CC09</a> , <a href="#">Q6GSS7</a> , <a href="#">Q6FI13</a> , <a href="#">P06897</a> ,<br><a href="#">P02262</a> , <a href="#">P22752</a> , <a href="#">P0C0S8</a> , <a href="#">P0C0S9</a> , <a href="#">Q8CGP7</a> ,<br><a href="#">Q99878</a> , <a href="#">Q8CGP6</a> |
| Reactivity        | <b>Human</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Predicted         | <b>Mouse, Rat, Bovine, Xenopus, Chicken,<br/>Monkey, Zebrafish</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Host              | <b>Rabbit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality         | <b>Polyclonal</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype           | <b>Rabbit IgG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Calculated MW     | <b>14135</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Antigen Region    | <b>11-38</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**HIST1H2AB Antibody (N-term) - Additional Information****Gene ID** 3012;8335**Other Names**

Histone H2A type 1-B/E, Histone H2A2, Histone H2A/a, Histone H2A/m, HIST1H2AB, H2AFM

**Target/Specificity**

This HIST1H2AB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-38 amino acids from the N-terminal region of human HIST1H2AB.

**Dilution**

WB~~1:1000

**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**

HIST1H2AB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## HIST1H2AB Antibody (N-term) - Protein Information

**Name** H2AC4 ([HGNC:4734](#))

**Function** Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

**Cellular Location**

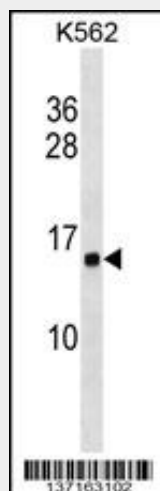
Nucleus. Chromosome.

## HIST1H2AB 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](#)

## HIST1H2AB Antibody (N-term) - Images



HIST1H2AB Antibody (N-term) (Cat. #AP17445a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the HIST1H2AB antibody detected the HIST1H2AB protein (arrow).

## HIST1H2AB Antibody (N-term) - Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 H2A family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

#### **HIST1H2AB Antibody (N-term) - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :  
Bergink, S., et al. Genes Dev. 20(10):1343-1352(2006)  
Cao, R., et al. Mol. Cell 20(6):845-854(2005)  
Hagiwara, T., et al. Biochemistry 44(15):5827-5834(2005)  
Andersen, J.S., et al. Nature 433(7021):77-83(2005)