

HIST1H2AB Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13062a**Specification****HIST1H2AB Antibody (N-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	P04908
Other Accession	Q6GM86 , Q7ZUY3 , A9UMV8 , Q8R1M2 , Q4R3X5 , Q9BTM1 , P70082 , Q3ZBX9 , P02263 , Q4FZT6 , Q8BFU2 , Q7L7L0 , P35062 , P06898 , Q64523 , Q16777 , A1A4R1 , Q64522 , Q8IUE6 , P0CC09 , Q6GSS7 , Q6FI13 , P06897 , P02262 , P22752 , P0C0S8 , P0C0S9 , Q8CGP7 , Q99878 , Q8CGP6 , Q96KK5 , Q64598
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Xenopus, Chicken, Monkey, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	14135
Antigen Region	12-40

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 12-40 amino acids from the N-terminal region of human HIST1H2AB.

Dilution

FC~~1:10~50

IHC-P~~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

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

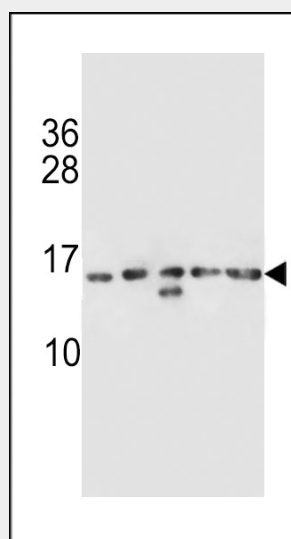
Nucleus. Chromosome.

HIST1H2AB Antibody (N-term) - Protocols

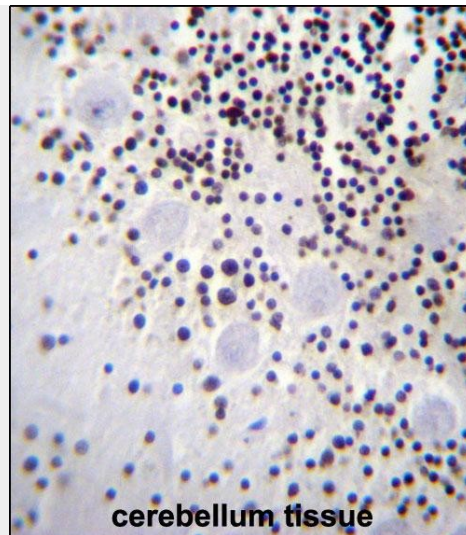
Provided below are standard protocols that you may find useful for product applications.

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

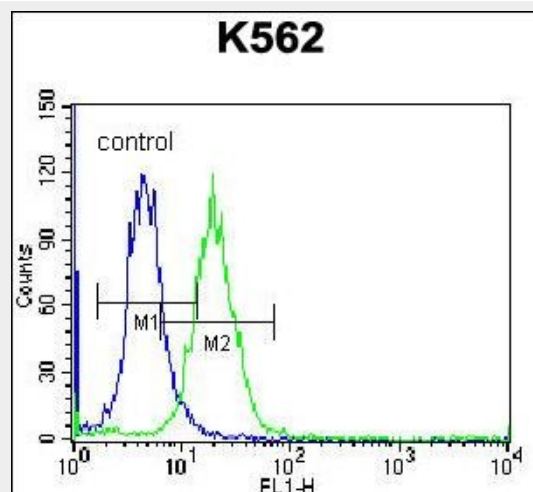
HIST1H2AB Antibody (N-term) - Images



HIST1H2AB Antibody (N-term) (Cat. #AP13062a) western blot analysis in K562,CEM,MDA-MB453,NCI-H460,MDA-MB231 cell line lysates (35ug/lane).This demonstrates the HIST1H2AB antibody detected the HIST1H2AB protein (arrow).



HIST1H2AB Antibody (N-term) (Cat. #AP13062a) immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of HIST1H2AB Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



HIST1H2AB Antibody (N-term) (Cat. #AP13062a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

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)