

HIST1H2AA Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12399a**Specification**

HIST1H2AA Antibody (N-term) - Product Information

| | |
|-------------------|-----------------------------|
| Application | WB,E |
| Primary Accession | O96QV6 |
| Other Accession | NP_734466.1 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 14234 |
| Antigen Region | 1-30 |

HIST1H2AA Antibody (N-term) - Additional Information**Gene ID** 221613**Other Names**

Histone H2A type 1-A, Histone H2A/r, HIST1H2AA, H2AFR

Target/Specificity

This HIST1H2AA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HIST1H2AA.

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

HIST1H2AA Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HIST1H2AA Antibody (N-term) - Protein Information**Name** H2AC1 ([HGNC:18729](#))**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.

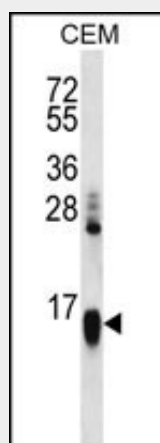
Cellular Location

Nucleus. Chromosome.

HIST1H2AA 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](#)

HIST1H2AA Antibody (N-term) - Images

HIST1H2AA Antibody (N-term) (Cat. #AP12399a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the HIST1H2AA antibody detected the HIST1H2AA protein (arrow).

HIST1H2AA Antibody (N-term) - 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 H2A family. Transcripts from this gene contain a palindromic termination element.

HIST1H2AA Antibody (N-term) - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
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)
Wang, H., et al. Nature 431(7010):873-878(2004)