

**HIST2H4A(20Me) Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2143a****Specification****HIST2H4A(20Me) Antibody - Product Information**

Application	WB, IHC, FC, ICC, E
Primary Accession	<a href="#">P62805</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	11.4kDa KDa

**Description**

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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

**Immunogen**

Synthesized peptide of human HIST2H4A ( AA: GGAKRHRK(Me)VLRDNIQ ).

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**HIST2H4A(20Me) Antibody - Additional Information**

**Gene ID** 121504;554313;8294;8359;8360;8361;8362;8363;8364;8365;8366;8367;8368;8370

**Dilution**

WB~~1/200 - 1/1000  
IHC~~1/200 - 1/1000  
FC~~1/200 - 1/400  
ICC~~N/A  
E~~1/10000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HIST2H4A(20Me) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **HIST2H4A(20Me) Antibody - Protein Information**

**Name** H4C1

**Synonyms** H4/A, H4FA, HIST1H4A

### **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 {ECO:0000250|UniProtKB:P62806}. Chromosome. Note=Localized to the nucleus when acetylated in step 11 spermatids. {ECO:0000250|UniProtKB:P62806}

## **HIST2H4A(20Me) Antibody - 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](#)