

**HIST1H4A Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5130**

**Specification**

**HIST1H4A Antibody (C-term) - Product Information**

Application	IHC-P, WB, FC,E
Primary Accession	<a href="#">P62805</a>
Other Accession	<a href="#">P02309</a> , <a href="#">P62799</a> , <a href="#">P62804</a> , <a href="#">P62802</a> , <a href="#">P62806</a> , <a href="#">Q4R362</a> , <a href="#">P84040</a> , <a href="#">P62801</a> , <a href="#">P62784</a> , <a href="#">P62803</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine, C.Elegans, Chicken, Drosophila, Monkey, Pig, Xenopus, Yeast
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=11;M=11;Rat=11 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**HIST1H4A Antibody (C-term) - Additional Information**

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

**Antigen Region**  
71-103

**Other Names**  
Histone H4, HIST1H4A, H4/A, H4FA

**Dilution**  
IHC-P~1:25  
WB~1:1000  
FC~1:25

**Target/Specificity**  
This HIST1H4A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 71-103 amino acids from the C-terminal region of human HIST1H4A.

**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**  
HIST1H4A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## HIST1H4A Antibody (C-term) - 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

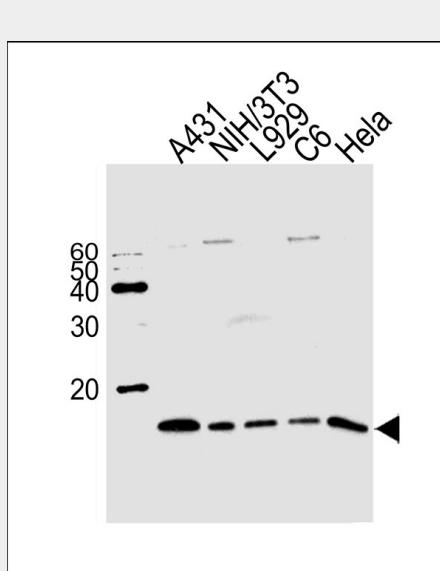
Nucleus {ECO:0000250|UniProtKB:P62806}. Chromosome. Note=Localized to the nucleus when acetylated in step 11 spermatids. {ECO:0000250|UniProtKB:P62806}

## HIST1H4A Antibody (C-term) - Protocols

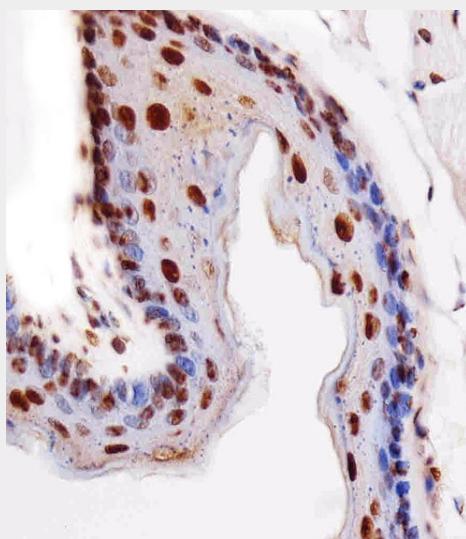
Provided below are standard protocols that you may find useful for product applications.

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

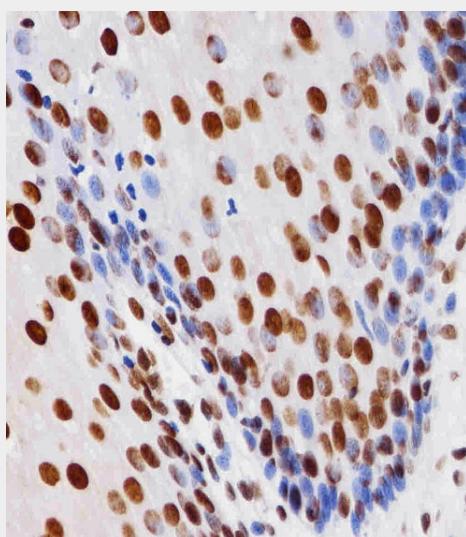
## HIST1H4A Antibody (C-term) - Images



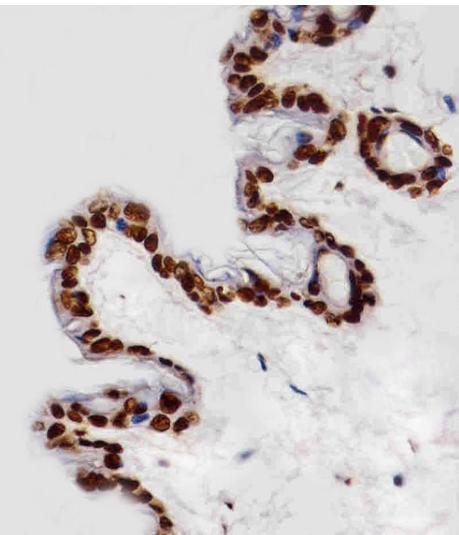
Western blot analysis of lysates from A431, mouse NIH/3T3, L929, rat C6, HeLa cell line (from left to right), using HIST1H4A Antibody (C-term)(Cat. #AW5130). AW5130 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



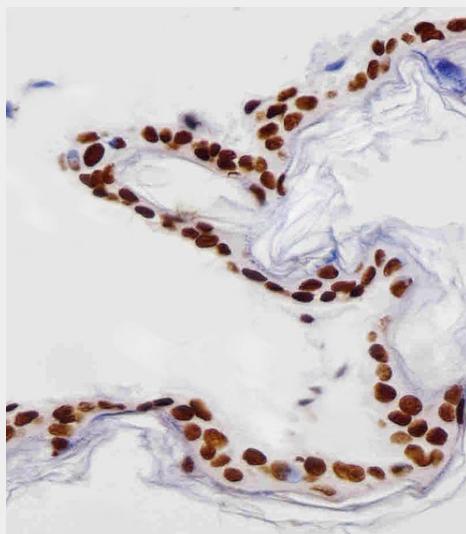
Immunohistochemical analysis of paraffin-embedded M. esophagus section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



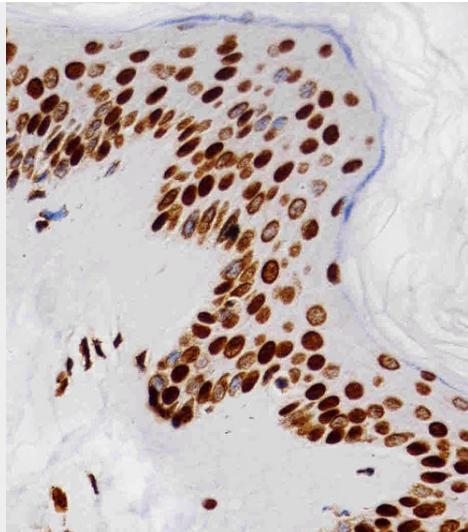
Immunohistochemical analysis of paraffin-embedded H. esophagus section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



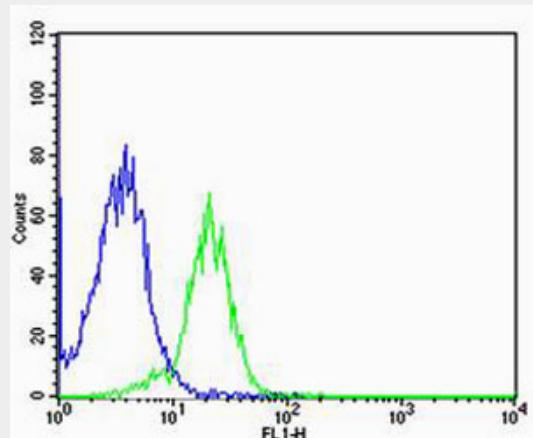
Immunohistochemical analysis of paraffin-embedded *M.* skin section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded *R.* skin section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. skin section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Flow cytometric analysis of MCF-7 cells using HIST1H4A Antibody (C-term)(green, Cat#AW5130) compared to an isotype control of rabbit IgG(blue). AW5130 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

### **HIST1H4A Antibody (C-term) - Background**

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.

### **HIST1H4A Antibody (C-term) - References**

- Sierra F.,et al.Nucleic Acids Res. 11:7069-7086(1983).
- Pauli U.,et al.Science 236:1308-1311(1987).
- Albig W.,et al.Genomics 10:940-948(1991).
- Drabent B.,et al.DNA Cell Biol. 14:591-597(1995).
- Albig W.,et al.Gene 184:141-148(1997).