

**HIST1H2AG Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5129****Specification**

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**HIST1H2AG Antibody (Center) - Product Information**

Application	<b>IHC-P, FC, WB,E</b>
Primary Accession	<a href="#">P0C0S8</a>
Other Accession	<a href="#">P84051</a> , <a href="#">P27661</a> , <a href="#">P16104</a> , <a href="#">Q7ZUY3</a> , <a href="#">A9UMV8</a> , <a href="#">Q8R1M2</a> , <a href="#">Q4R3X5</a> , <a href="#">Q9BTM1</a> , <a href="#">P70082</a> , <a href="#">Q3ZBX9</a> , <a href="#">Q00728</a> , <a href="#">P02263</a> , <a href="#">Q4FZT6</a> , <a href="#">Q8BFU2</a> , <a href="#">Q7L7L0</a> , <a href="#">P35062</a> , <a href="#">P04912</a> , <a href="#">Q64523</a> , <a href="#">Q16777</a> , <a href="#">A1A4R1</a> , <a href="#">Q64522</a> , <a href="#">Q8IUE6</a> , <a href="#">P0CC09</a> , <a href="#">Q6GSS7</a> , <a href="#">Q6FI13</a> , <a href="#">P04911</a> , <a href="#">P06897</a> , <a href="#">P02262</a> , <a href="#">P22752</a> , <a href="#">P0C0S9</a> , <a href="#">Q8CGP7</a> , <a href="#">Q99878</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Rat, Bovine, Xenopus, Yeast, Chicken, Monkey, Zebrafish, Drosophila</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>H=14;M=14 KDa</b>
Isotype	<b>Rabbit IgG</b>
Antigen Source	<b>HUMAN</b>

**HIST1H2AG Antibody (Center) - Additional Information****Gene ID** 8329;8330;8332;8336;8969**Antigen Region**  
63-87**Other Names**  
Histone H2A type 1, H2A1, Histone H2A/p, HIST1H2AG, H2AFP**Dilution**  
IHC-P~~1:25  
FC~~1:25  
WB~~1:1000**Target/Specificity**  
This HIST1H2AG antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 63-87 amino acids from the Central region of human HIST1H2AG.**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**

HIST1H2AG Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HIST1H2AG Antibody (Center) - Protein Information**

**Name** H2AC11 ([HGNC:4737](#))

**Synonyms** H2AFP, HIST1H2AG

**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.

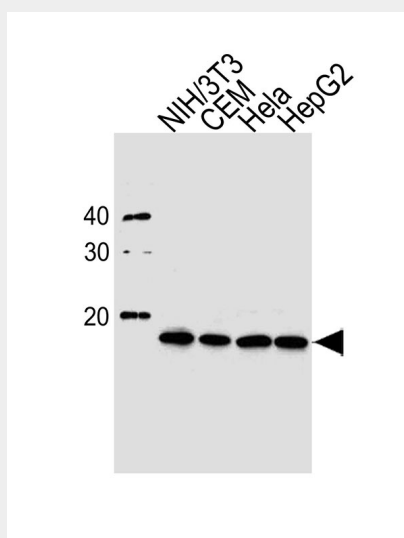
**Cellular Location**

Nucleus. Chromosome.

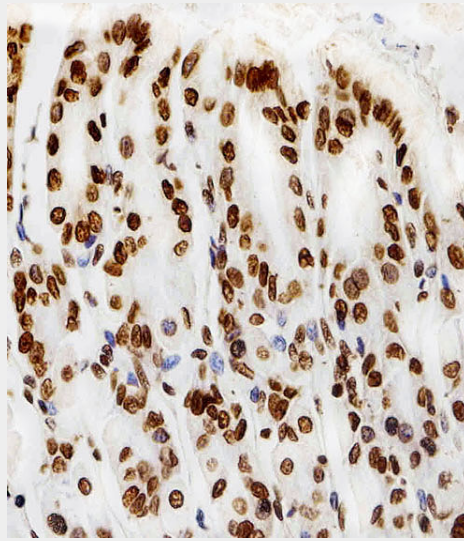
**HIST1H2AG Antibody (Center) - Protocols**

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

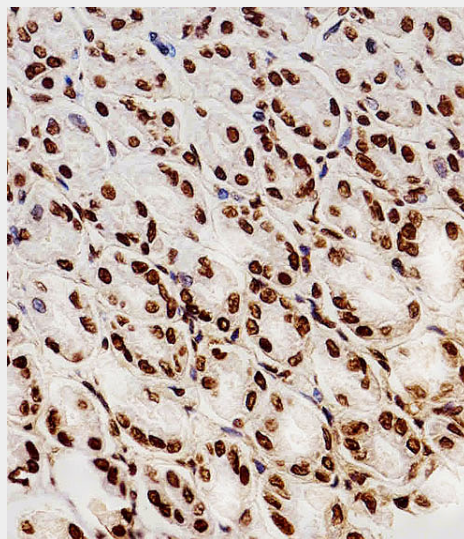
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HIST1H2AG Antibody (Center) - Images**

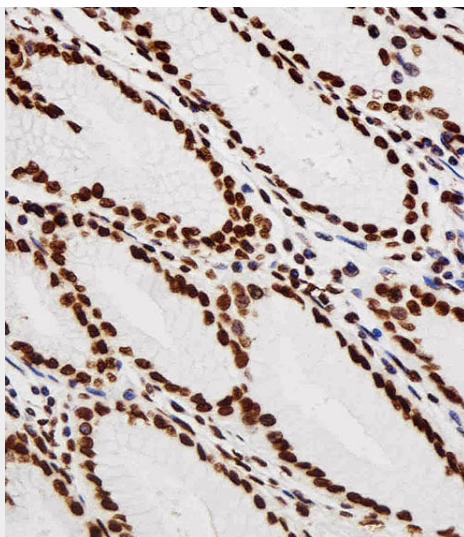
Western blot analysis of lysates from mouse NIH/3T3,CEM,Hela,HepG2 cell line (from left to right), using HIST1H2AG Antibody (Center)(Cat. #AW5129). AW5129 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



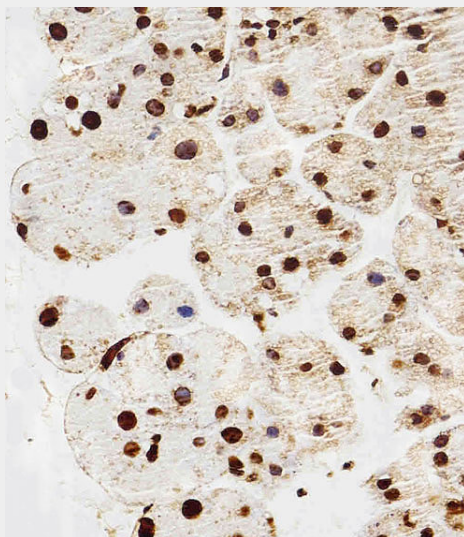
Immunohistochemical analysis of paraffin-embedded M. stomach section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



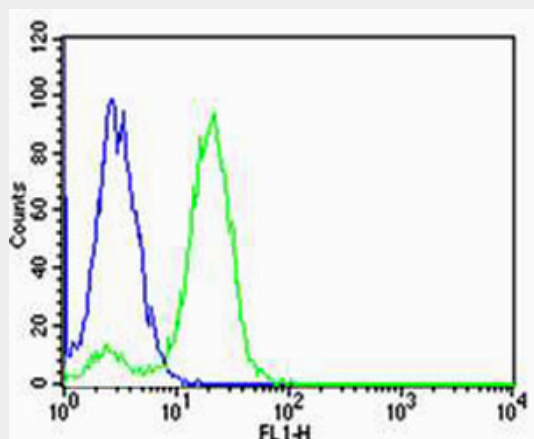
Immunohistochemical analysis of paraffin-embedded R. stomach section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded M. testis section using H. stomach Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 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. pancreas section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 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 Hela cells using HIST1H2AG Antibody (Center)(green, Cat#AW5129) compared to an isotype control of rabbit IgG(blue). AW5129 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

#### **HIST1H2AG Antibody (Center) - 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.

#### **HIST1H2AG Antibody (Center) - References**

Albig W.,et al.Hum. Genet. 101:284-294(1997).  
Albig W.,et al.Biol. Chem. 380:7-18(1999).  
Dobner T.,et al.DNA Seq. 1:409-413(1991).  
Mannironi C.,et al.DNA Cell Biol. 13:161-170(1994).  
Marzluff W.F.,et al.Genomics 80:487-498(2002).