10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

HIST1H2AG Antibody (Center) - Product Information

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

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

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.

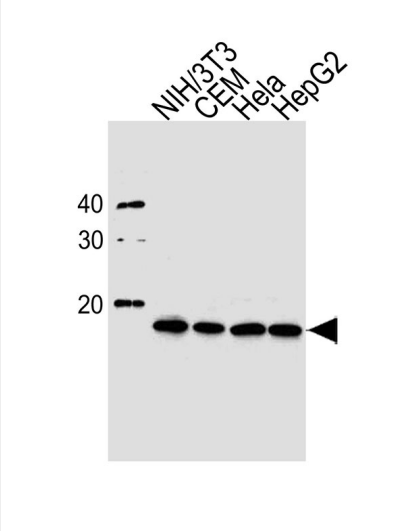
Cellular Location
Nucleus. Chromosome.

HIST1H2AG Antibody (Center) - Protocols

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

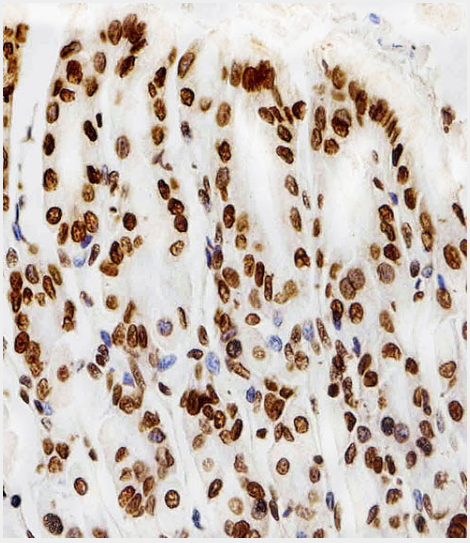
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HIST1H2AG Antibody (Center) - Images

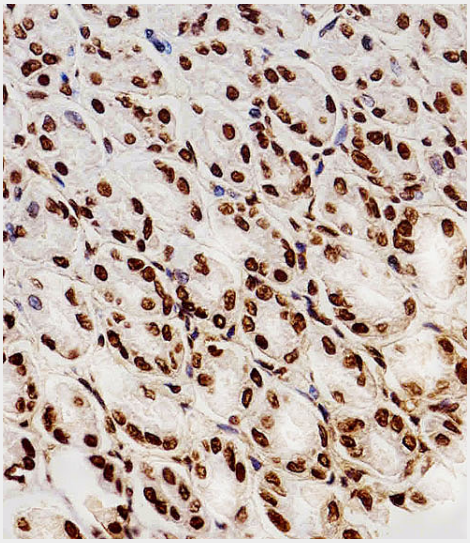


10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

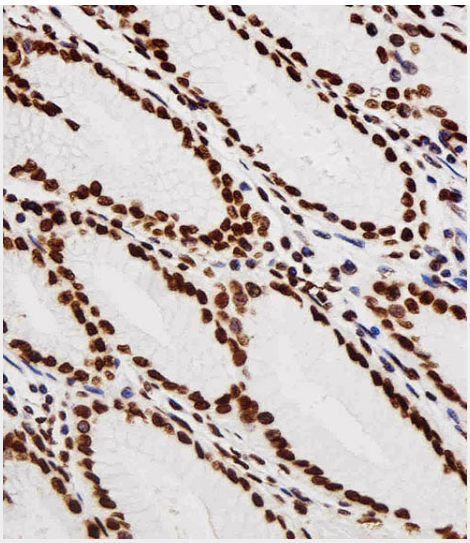


Immunohistochemical analysis of paraffin-embedded M. stomach section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

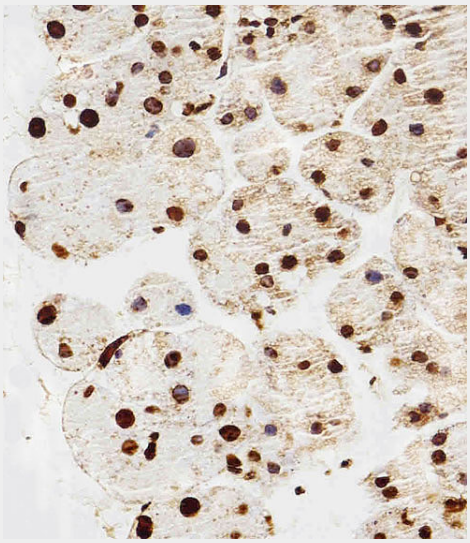


Immunohistochemical analysis of paraffin-embedded R. stomach section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

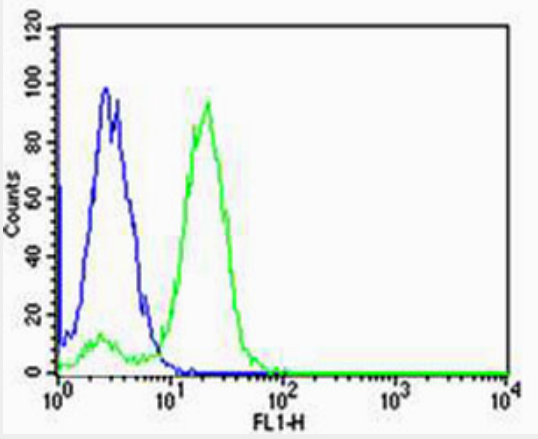
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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 lgG 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).