

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

Specification

HIST1H2AG Antibody (Center) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	POC0S8
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 , POC0S9 , Q8CGP7 , Q99878
Reactivity Predicted	Human, Mouse 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

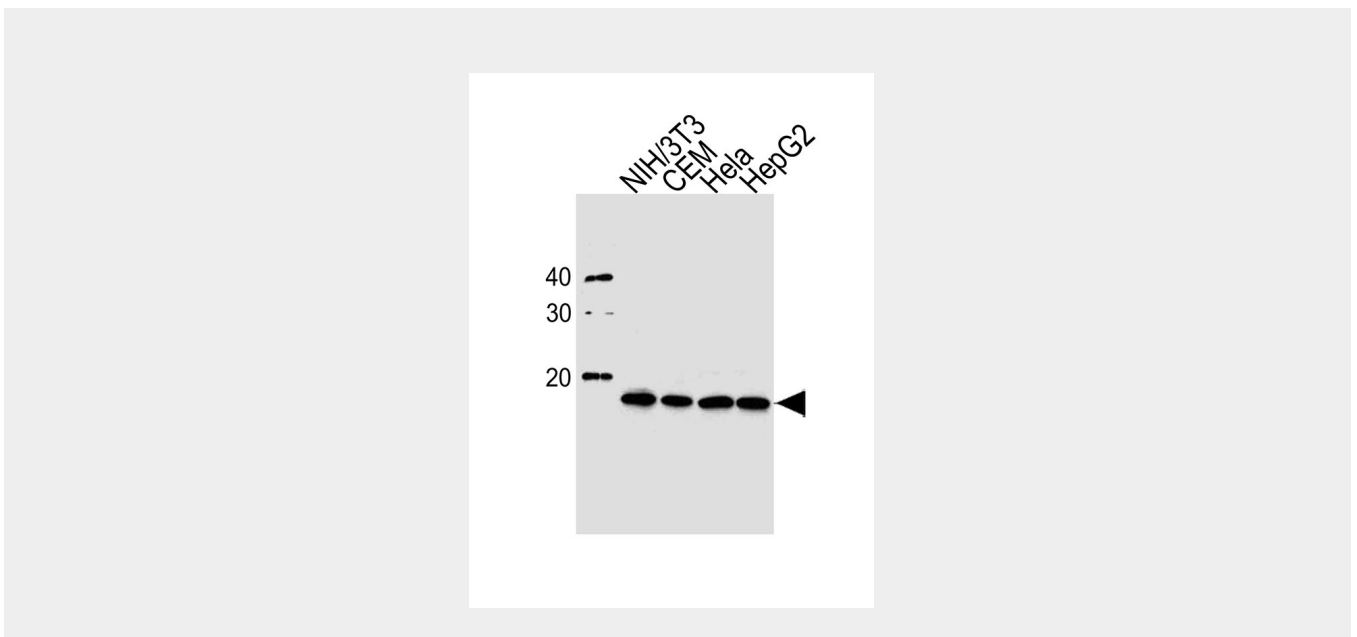
Nucleus. Chromosome.

HIST1H2AG Antibody (Center) - Protocols

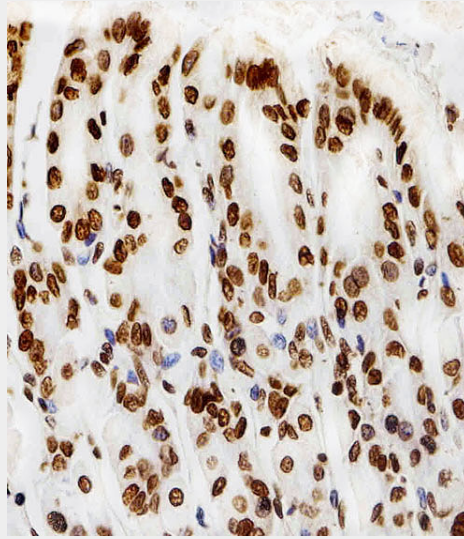
Provided below are standard protocols that you may find useful for product applications.

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

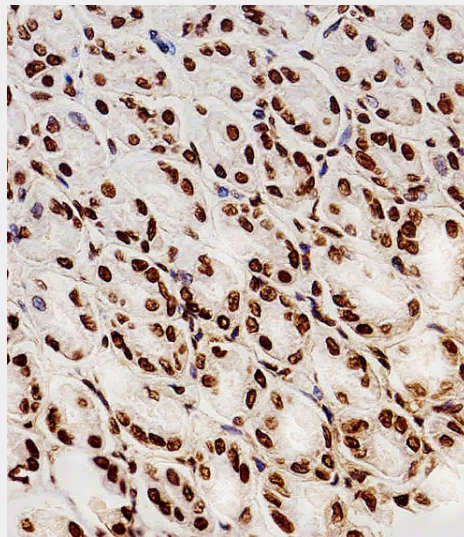
HIST1H2AG Antibody (Center) - Images



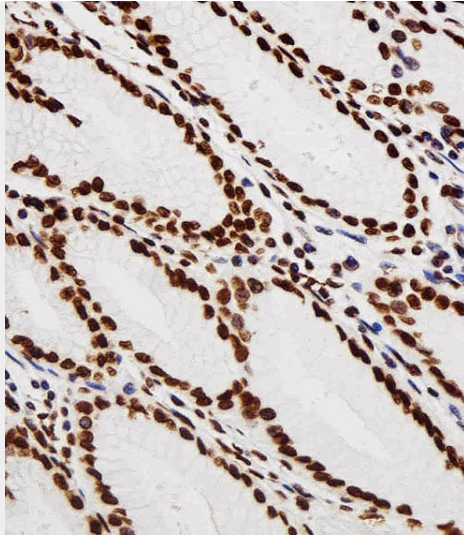
Western blot analysis of lysates from mouse NIH/3T3,CEM,Hela,HepG2 cell line (from left to right), using HIST1H2AG Antibody (Center)(Cat. #AW5129). AW5129 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



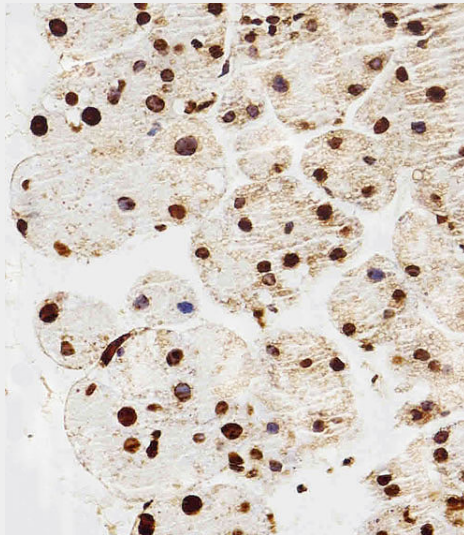
Immunohistochemical analysis of paraffin-embedded M. stomach section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



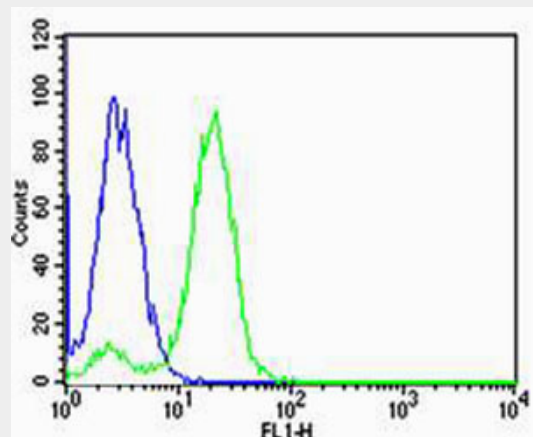
Immunohistochemical analysis of paraffin-embedded R. stomach section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



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).