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

Product Information

Application	IHC-P, FC, WB
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, Zebrafish, Monkey, Bovine, Chicken, Drosophila, Xenopus, Yeast
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14091
Isotype	Rabbit IgG
Antigen Source	HUMAN

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~~1:100~500 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.

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.

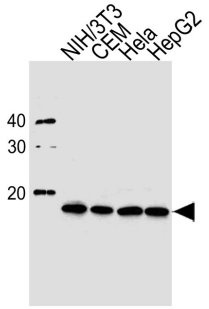
Background

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.

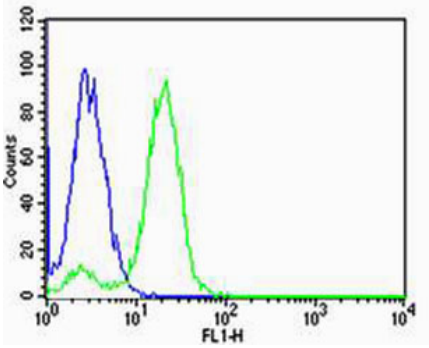
References

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).

Images

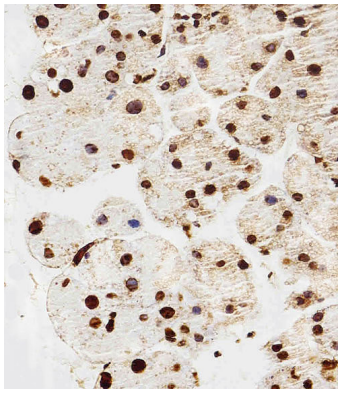


Western blot analysis of lysates from mouse NIH/3T3,CEM,Hela,HepG2 cell line (from left to right), using HIST1H2AG Antibody (Center)(Cat. #AW5129). AW5129 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

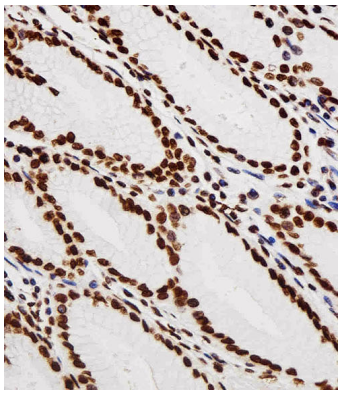


Flow cytometric analysis of Hela cells using HIST1H2AG Antibody (Center)(green, Cat#AW5129) compared to an isotype control of rabbit IgG(blue). AW5129 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.

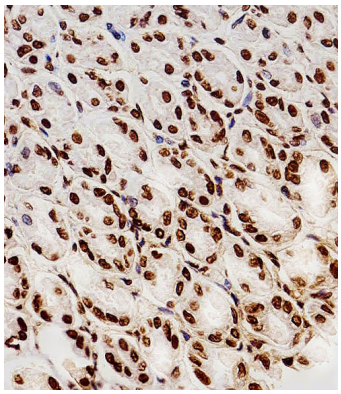
Immunohistochemical analysis of paraffin-embedded M. pancreas section using HIST1H2AG Antibody (Center)(Cat#AW5129). AW5129 was diluted at 1:100



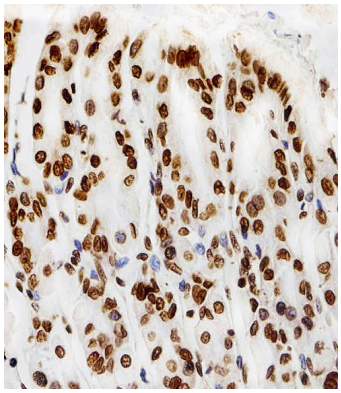
dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



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 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. 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.