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HIST1H4A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5130

Product Information

Application	IHC-P, FC, WB
Primary Accession	P62805
Other Accession	P02309, P62799, P62804, P62802, P62806, Q4R362, P84040, P62801, P62784, P62803
Reactivity	Human, Mouse, Rat
Predicted	Monkey, Bovine, Chicken, Drosophila, C.Elegans, Xenopus, Yeast
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11367
Isotype	Rabbit IgG
Antigen Source	HUMAN

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~~1:100~500 FC~~1:25 WB~~1:1000
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.

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}

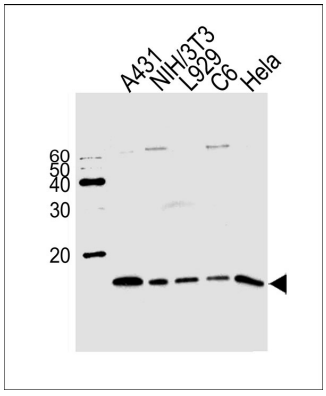
Background

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.

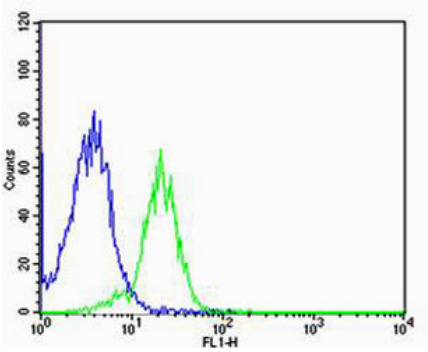
References

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).

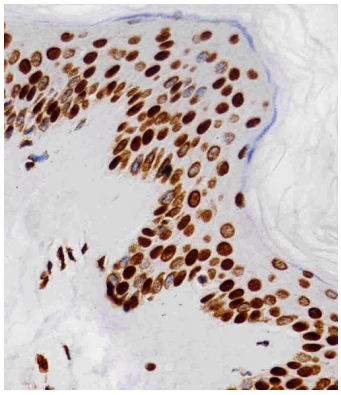
Images



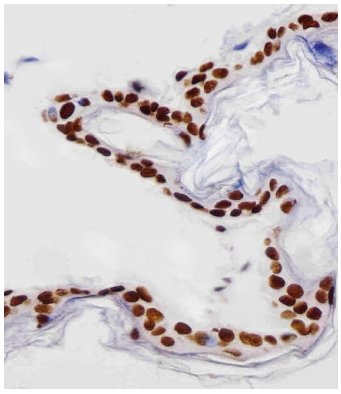
Western blot analysis of lysates from A431,mouse NIH/3T3,L929,rat C6,Hela cell line (from left to right), using HIST1H4A Antibody (C-term)(Cat. #AW5130). AW5130 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



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 lgG at 1:400 dilution was used as the secondary antibody.

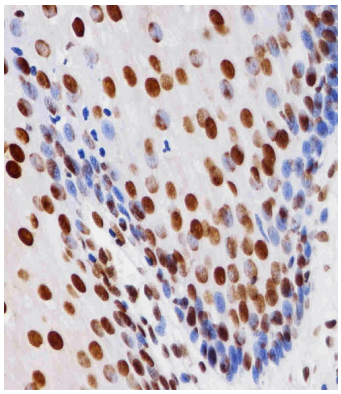


Immunohistochemical analysis of paraffin-embedded H. skin section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



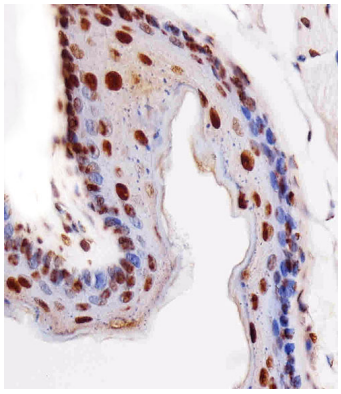
Immunohistochemical analysis of paraffin-embedded R. skin section using HIST1H4A Antibody (C-term)(Cat#AW5130). AW5130 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Immunohistochemical analysis of paraffin-embedded 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 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. 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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.