





HIST1H2AG Polyclonal Antibody

Catalog Number PA5-24822 Product data sheet

Details	
Size	400 μL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	KLH conjugated synthetic peptide between 103-130 amino acids from the C-terminal region of human HIST1H2AL
Conjugate	Unconjugated
Form	Liquid
Purification	Protein A, Antigen affinity chromatography
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human
Published species	Human, Not Applicable
Tested Applications	Dilution *
ChIP assay (ChIP)	1.5 µg/1x10^6 cells
Flow Cytometry (Flow)	1:10-1:50
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Western Blot (WB)	1:1,000
Immunocytochemistry (ICC/IF)	1:100

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody is predicted to react with bovine, mouse and rat based on sequence homology.

Background/Target Information

Histones are nuclear proteins that play an important role in maintaining the structure of the chromosome in eukaryotes. The nucleosome is made up of around 146bp of DNA, which enfolds around a histone octomer unit comprising of four major histones, H2A, H2B, H3 and H4. An important role of H2A is to ensure proper assembly or functioning of the centrometre. They also play an important role in gene regulation. The protein can be modified by acetylation and phosphorylation.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

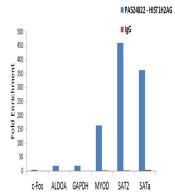
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSINE REALED FOR ROCKETOR POR REFUND FOR PORTOR PORT OF REFUND FOR PORTOR PORTO

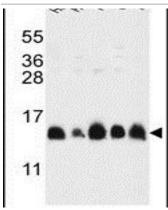


Product Images For HIST1H2AG Polyclonal Antibody



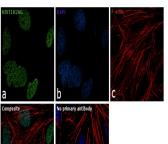
HIST1H2AG Antibody (PA5-24822)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-HIST1H2AG Polyclonal Antibody (Product # PA5-24822) with relevant positive (c-Fos, ALDOA, GAPDH) and negative (MYOD, SAT2 satellite repeats, SAT Alpha) target genes/binding sites. {RE}



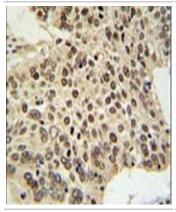
HIST1H2AG Antibody (PA5-24822) in WB

Western blot analysis using a HIST1H2AL polyclonal antibody (Product # PA5-24822) in HL-60, HepG2, K562, CEM, MCF-7 cell lysates (35 μg per lane).



HIST1H2AG Antibody (PA5-24822) in ICC/IF

Immunofluorescence analysis of HIST1H2AG was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with HIST1H2AG Rabbit Polyclonal Antibody (Product # PA5-24822) at 1:100 dilution in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



HIST1H2AG Antibody (PA5-24822) in IHC (P)

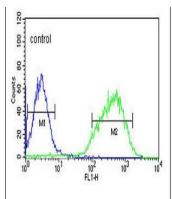
Immunohistochemistry analysis in formalin-fixed, paraffin-embedded human lung carcinoma using a HIST1H2AL polyclonal antibody (Product # PA5-24822), followed by HRP-conjugated secondary antibody and DAB staining.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The varranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample unsisted to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

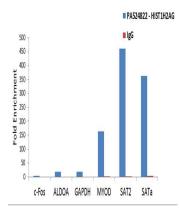
NO OTHER WARRANTES, EXPRESS OR MINELD, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BLYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPRIA, REPLACEDING TO FOR REFUND FOR THE NON-CONFORMING PRODUCTS (DATE IS NO EDULGATION TO REPRIA, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCTS (S) AT SELERS IS NO EDULGATION TO REPRIA, REPLACE OR REFUND FOR TROTS AS THE RESULT OF (I) ACCIDENT OF FORCE MADE (S) AT SELECTION OF THE PRODUCTS. AS THE RESULT OF (I) ACCIDENT OF FORCE MADE (S) AT SELECTION OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR IVITY IN PROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in with or admost consumption by or a consumitation by a consumitation by a consumitation or an admission.





HIST1H2AG Antibody (PA5-24822) in Flow

Flow cytometry analysis of HepG2 cells using a HIST1H2AL polyclonal antibody (Product # PA5-24822) (right) compared to a negative control cell (left) at a dilution of 1:10-50, followed by a FITC-conjugated goat anti-rabbit antibody



HIST1H2AG Antibody (PA5-24822) in ChIP

Enrichment of endogenous HIST1H2AG protein at specific gene loci using Anti-HIST1H2AG Antibody: Chromatin Immunoprecipitation (ChIP) was performed using Anti-HIST1H2AG Rabbit Polyclonal Antibody (Product # PA5-24822, 3 µg) on sheared chromatin from 2 million HeLa cells using the MAGnify ChIP system kit (Product # 49-2024). Normal Rabbit IgG was used as a negative IP control. The purified DNA was analyzed by qPCR with PCR primer pairs for the promoters of c-Fos, ALDOA,GAPDH used as positive and MYOD, SAT2 satellite repeats, SAT Alpha used as negative target genes/binding sites. Data is presented as fold enrichment of the antibody signal versus the negative control IgG using the comparative CT method.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The varranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMETY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMETY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PREVIOUS AND THE PRODUCTS OF REFUND FOR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT OF FORCE MADE (I) MUST SEE AND THE PRODUCTS. WITH A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (I) (I) MIPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unathorized commercial uses, in with originations use, or any top of consumption by or application to human or animals.

