

For Research Use Only

Histone H1.0 Polyclonal antibody

Catalog Number: 17510-1-AP **15 Publications**



Basic Information

Catalog Number: 17510-1-AP	GenBank Accession Number: BC000145	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3005	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF-P 1:50-1:500 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P07305	
Isotype: IgG	Full Name: H1 histone family, member 0	
Immunogen Catalog Number: AG9982	Calculated MW: 21 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, IP, ChIP, ELISA	Positive Controls: WB : HeLa cells, Jurkat cells, A431 cells, mouse spleen tissue, rat spleen tissue IP : A431 cells, IHC : skin cancer, IF-P : mouse liver tissue, IF/ICC : MCF-7 cells,
Cited Applications: WB, IF, ChIP	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Linker histones are involved in the formation of higher order structure in chromatin and the maintenance of overall chromatin compaction. The H1FO histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division. Histone H1.0 (H1FO, H1FV) is a linker histone that is widely expressed in many tissues and almost all vertebrates, unlike some other linker histones. The observed molecular weight of H1FO is about 32 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Kohsuke Kato	34489496	Sci Rep	WB
Jianjian Zhang	34707090	Cell Death Discov	WB
Nan Tian	31762817	J Cancer	WB

Storage

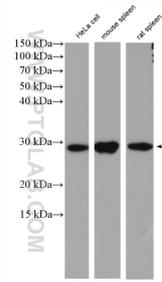
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

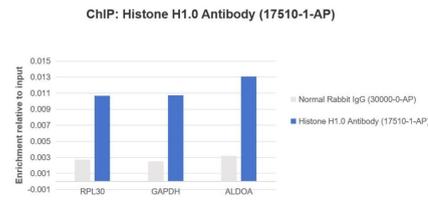
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

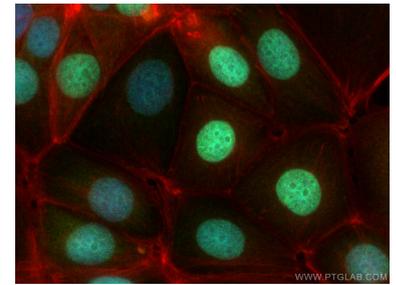
Selected Validation Data



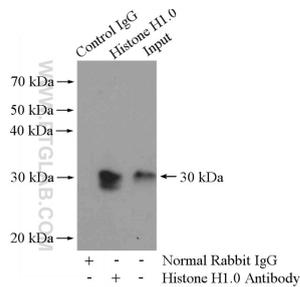
Various lysates were subjected to SDS PAGE followed by western blot with 17510-1-AP (Histone H1.0 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



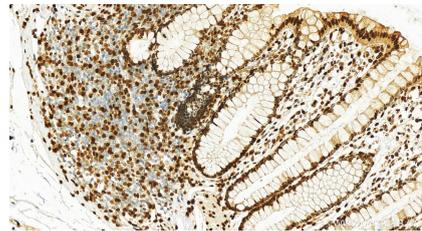
Chromatin was prepared from HeLa cells, cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Histone H1.0 Antibody (17510-1-AP) or 5 µg of Normal Rabbit IgG (30000-0-AP), and 30 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real time PCR. Primers are located in the first kb of the transcribed region.



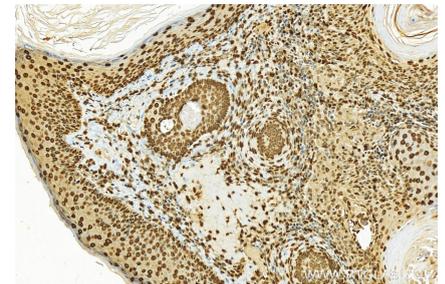
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Histone H1.0 antibody (17510-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



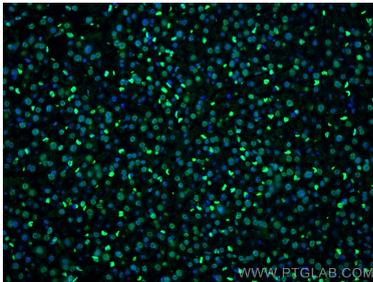
IP result of anti-Histone H1.0 (IP:17510-1-AP, 4µg; Detection:17510-1-AP 1:500) with A431 cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 17510-1-AP (Histone H1.0 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 17510-1-AP (Histone H1.0 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Histone H1.0 antibody (17510-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).