

For Research Use Only

# Histone H1.0 Polyclonal antibody

Catalog Number: 17510-1-AP **12 Publications**



## Basic Information

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

## Applications

<b>Tested Applications:</b> IF, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, Jurkat cells, A431 cells, mouse spleen tissue, rat spleen tissue
<b>Cited Applications:</b> IF, WB	IP : A431 cells,
<b>Species Specificity:</b> human, mouse, rat	IF : MCF-7 cells,
<b>Cited Species:</b> human, rat, mouse	

## 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 H1F0 histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division. Histone H1.0 (H1F0, 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 H1F0 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

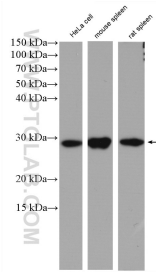
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

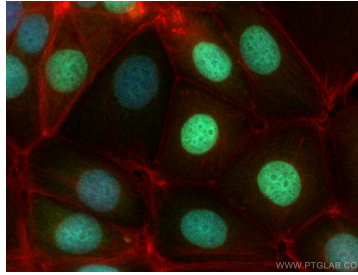
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

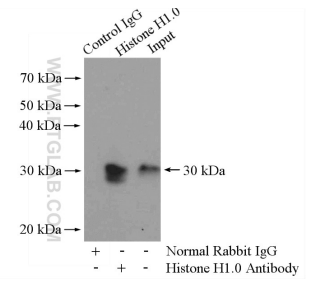
## Selected Validation Data



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.



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, 4ug; Detection:17510-1-AP 1:500) with A431 cells lysate 2400ug.