For Research Use Only

Histone H1.0 Polyclonal antibody, PBS Only

Catalog Number:17510-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
17510-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9982

GenBank Accession Number:
BC000145

GeneID (NCBI):
3005

UNIPROT ID:
P07305

Full Name:
H1 histone family, member 0

Calculated MW:
21 kDa

Observed MW:
32 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IP, ChIP, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

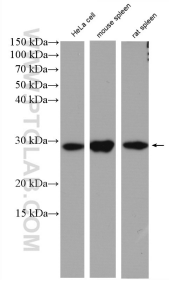
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber 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.

Storage

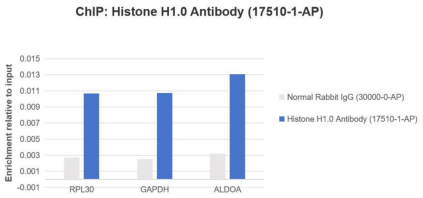
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

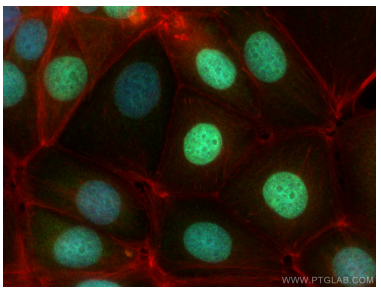
Selected Validation Data



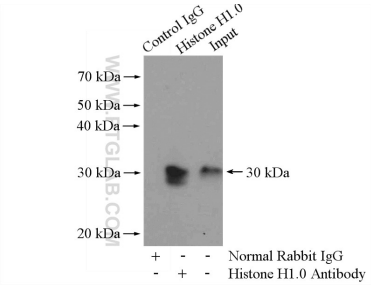
Various lysates were subjected to SDS PAGE followed by western blot with 17510-1-AP (Histone H1.0 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17510-1-PBS in a different storage buffer formulation.



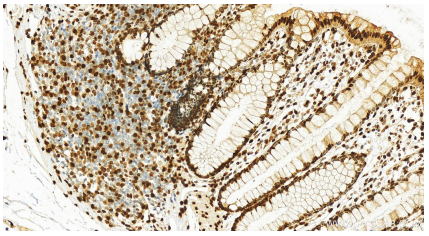
Chromatin was prepared from HeLa cells, cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Histone H1.0 Antibody (17510-1-AP) or 5 ug of Normal Rabbit IgG (30000-0-AP), and 30 µl of Protein A Magarose Beads. The immunoprecipitated DNA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



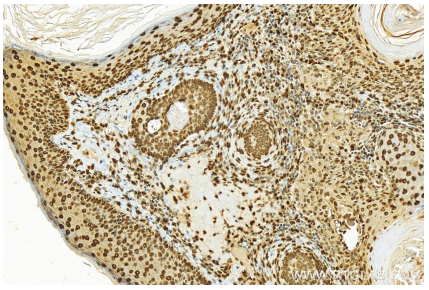
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Histone H1.0 antibody (17510-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 17510-1-PBS in a different storage buffer formulation.



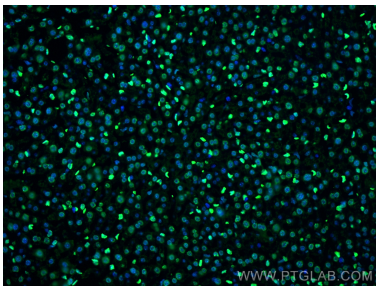
IP result of anti-Histone H1.0 (IP:17510-1-AP, 4ug; Detection:17510-1-AP 1:500) with A431 cells lysate 2400ug. This data was developed using the same antibody clone with 17510-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 17510-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 17510-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 17510-1-PBS in a different storage buffer formulation.