

For Research Use Only

Histone H1.2 Polyclonal antibody

Catalog Number: 19649-1-AP

Featured Product

28 Publications



Basic Information

Catalog Number:

19649-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7503

GenBank Accession Number:

BC002649

GeneID (NCBI):

3006

UNIPROT ID:

P16403

Full Name:

histone cluster 1, H1c

Calculated MW:

21 kDa

Observed MW:

32-33 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:600

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, camelus bactrianus

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

Positive Controls:

WB: L02 cells, human testis tissue, Jurkat cells, MCF-7 cells, A375 cells, mouse thymus tissue

IP: HeLa cells,

IHC: human ovary tumor tissue, human normal colon

IF/ICC: HeLa cells, HepG2 cells

Background Information

Histone H1 regulates chromatin competency through its high affinity binding to linker DNA as a structural component. It acts also as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation. The calculated molecular weight of Histone H1.2 is 21 kDa, but modified Histone H1.2 is about 32 kDa. (PMID: 18258596)

Notable Publications

Author	Pubmed ID	Journal	Application
Jun Tian	34745423	Oxid Med Cell Longev	WB
Wen-Tong Liu	30340642	J Neuroinflammation	WB
Masanori Itakura	35624109	Nat Commun	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

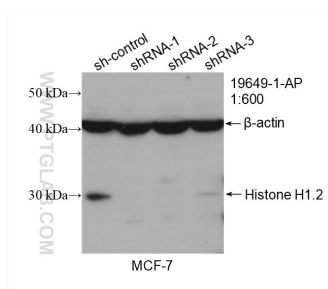
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

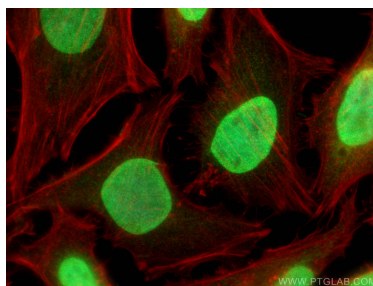
E: proteintech@ptglab.com
W: ptglab.com

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

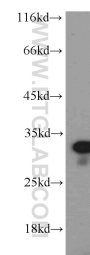
Selected Validation Data



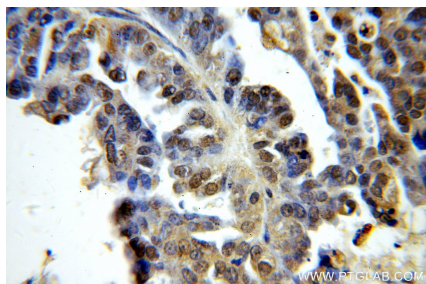
WB result of Histone H1.2 antibody (19649-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Histone H1.2 transfected MCF-7 cells.



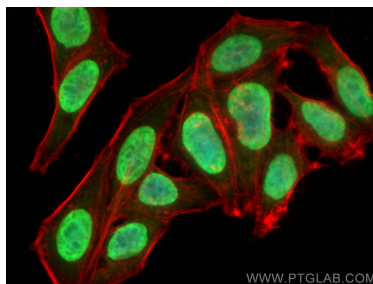
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Histone H1.2 antibody (19649-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



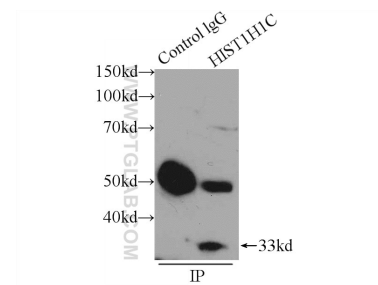
LO2 cells were subjected to SDS PAGE followed by western blot with 19649-1-AP (HIST1H1C antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 19649-1-AP (HIST1H1C antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Histone H1.2 antibody (19649-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



IP result of anti-Histone H1.2 (IP:19649-1-AP, 3ug; Detection:19649-1-AP 1:500) with HeLa cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 19649-1-AP (Histone H1.2 antibody) at dilution of 1:300 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).