

For Research Use Only

Histone H4 Polyclonal antibody



Catalog Number: 16047-1-AP

Featured Product

30 Publications

Basic Information

Catalog Number:

16047-1-AP

Size:

150ul , Concentration: 600 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8999

GenBank Accession Number:

BC012587

GeneID (NCBI):

8367

Full Name:

histone cluster 1, H4e

Calculated MW:

102 aa, 11 kDa

Observed MW:

14 kDa and 11 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

IHC 1:400-1:1600

IF 1:20-1:200

Applications

Tested Applications:

ChIP, IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

bovine, human, mouse, rat, yeast

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 : HeLa cells, rat thymus tissue, HepG2 cells, mouse kidney tissue, mouse thymus tissue, MCF-7 cells, HT-1080 cells

IP : HeLa cells,

IHC : mouse small intestine tissue, mouse colon tissue, human breast cancer tissue

IF : HeLa cells,

Background Information

Histone H4 is a 103 amino acid protein, which belongs to the histone H4 family. Histone H4 localizes in the nucleus and is a core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

Notable Publications

Author	Pubmed ID	Journal	Application
Liwei Weng	32978498	Sci Rep	WB,IP
Liangde Zheng	31525119	Autophagy	WB
Lilien N Voong	27889238	Cell	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

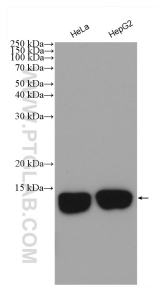
For technical support and original validation data for this product please contact:

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

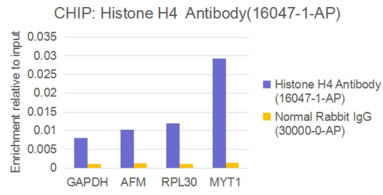
E: proteintech@ptglab.com
W: ptglab.com

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

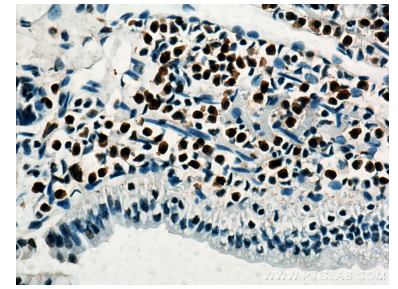
Selected Validation Data



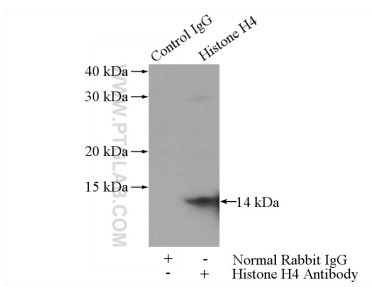
HeLa cells were subjected to SDS PAGE followed by western blot with 16047-1-AP (Histone H4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



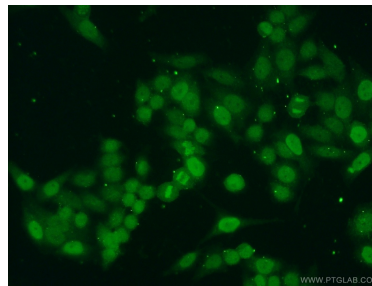
Chromatin was prepared from HEK-293 cells. The ChIP was performed with 10 µg of cross-linked chromatin, 5 µg of 16047-1-AP or Normal Rabbit IgG, and 60µl of Protein A sepharose beads. The immunoprecipitated DNA was quantified by real time PCR. Primers are located in the first kb of the transcribed region.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 16047-1-AP (Histone H4 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-Histone H4 (IP:16047-1-AP, 3ug; Detection:16047-1-AP 1:600) with HeLa cells lysate 2000ug.



Immunofluorescent analysis of HeLa cells using 16047-1-AP (Histone H4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).