

For Research Use Only

Acetyl-Histone H4 (Lys12) Recombinant antibody

Catalog Number: 83095-1-RR

Featured Product



Basic Information

Catalog Number:

83095-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC069654

GeneID (NCBI):

8359

UNIPROT ID:

P62805

Full Name:

histone cluster 1, H4a

Observed MW:

12 kDa

Purification Method:

Protein A purification

CloneNo.:

1D18

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF/ICC 1:150-1:600

Applications

Tested Applications:

WB, IHC, IF/ICC, Dot Blot, ELISA

Species Specificity:

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

Positive Controls:

WB: Trichostatin A treated NIH/3T3 cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells

IHC: mouse small intestine tissue,

IF/ICC: Caco-2 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. Acetylation of histone H4 is necessary for chromatin decompaction during DNA replication.

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

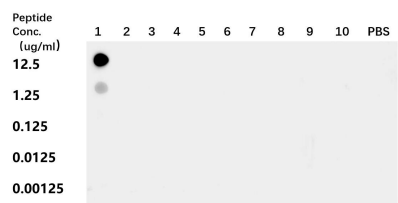
For technical support and original validation data for this product please contact:

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

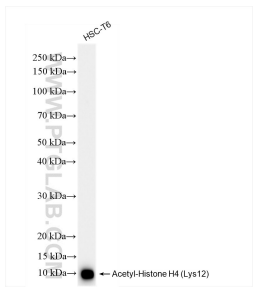
E: proteintech@ptglab.com
W: ptglab.com

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

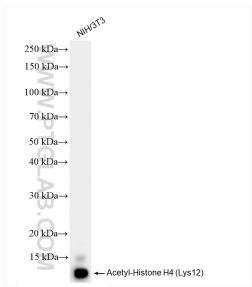
Selected Validation Data



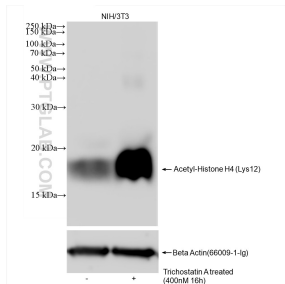
Dot blot analysis was used to confirm the specificity of Histone H4AK12ac antibody. Acetylated peptides were spotted onto NC and probed with antibody at 1 μ g/ml. The amount of peptide (μ g/ml) spotted is indicated next to each row. Column 1: H4AK12ac. Column 2: Unmodified H4AK12. Column 3: H4AK5ac. Column 4: Unmodified H4AK5. Column 5: H4AK8Ac. Column 6: Unmodified H4AK8. Column 7: H4AK16ac. Column 8: Unmodified H4AK16. Column 9:



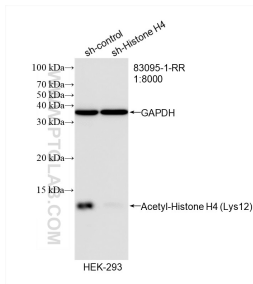
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



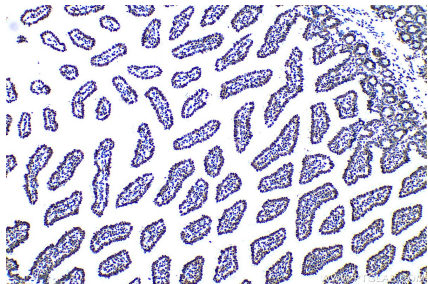
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



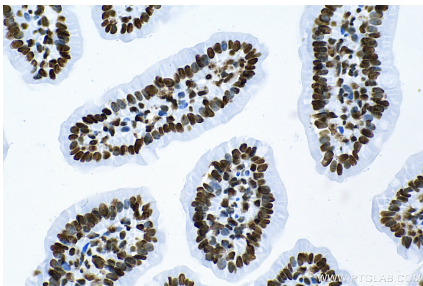
Untreated and trichostatin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



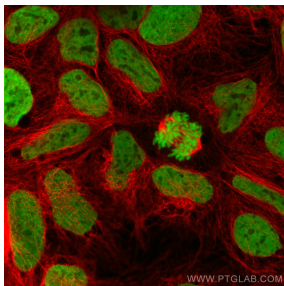
WB result of Acetyl-Histone H4 (Lys12) antibody (83095-1-RR; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Acetyl-Histone H4 (Lys12) transfected HEK-293 cells.



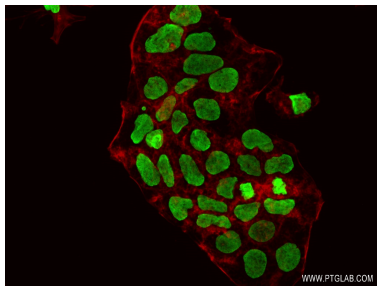
Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using Acetyl-Histone H4 (Lys12) antibody (83095-1-RR, Clone: 1D18) at dilution of 1:500 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using Acetyl-Histone H4 (Lys12) antibody (83095-1-RR, Clone: 1D18) at dilution of 1:300 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).