Acetyl-Histone H4 (Lys12) Recombinant antibody

Catalog Number:83095-1-RR

Featured Product

| Basic Information | Catalog Number: 83095-1-RR | GenBank Accession Number: BC 069654 | | Purification Method: Protein A purification |
|--------------------------|--|---|-------------------------------------|---|
| | Size: GeneID (NCBI): 1000 ug/ml 8359 | | | CloneNo.: 1D18 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:150-1:600 |
| | Source: Rabbit | UNIPROT ID: P62805 Full Name: histone cluster 1, H4a | | |
| | Isotype: IgG | | | |
| | | Observed MW: 12 kDa | | |
| Applications | Tested Applications: | Positive Con | | trols: |
| | WB, IHC, IF/ICC, Dot Blot, ELISA Species Specificity: | | | tatin A treated NIH/3T3 cells, HEK-293 6 cells, NIH/3T3 cells |
| | human, mouse, rat | | IHC : mouse small intestine tissue, | |
| | Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | 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 a Storage Buffer: PBS with 0.02% sodium azide and 5 Aliquoting is unnecessary for -20°C | 0% glycerol pH 7.3. | | |

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

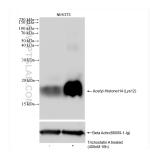
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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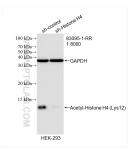
Selected Validation Data



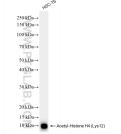
Dot blot analysis was used to confirm the specificity of Histone H4AK12ac antibody. Acetylated peptides were spotted onto NC and probed with antibody at 1 µg/ml.The amount of peptide (µ g/ml) spotted is indicated next to each row. Column 1: H4AK12ac. Column 2: Unmodified H4AK12. Column 3: H4AK5ac. Column 4: Unmodified H4AK5. Column 5: H4AK8Ac. Column 6: Unmodified H4AK8. Column 7: H4AK16ac. Column 8:Unmodified H4AK16. Column 9: H4AK91ac. Column 10:



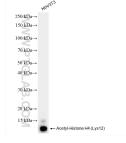
Untreated and trichostatin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



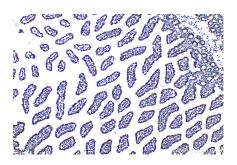
WB result of Acetyl-Histone H4 (Lys12) antibody (83095-1-RR; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Acetyl-Histone H4 (Lys12) transfected HEK-293 cells.



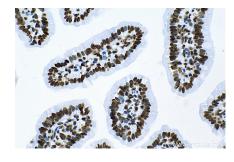
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



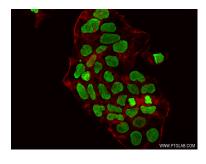
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



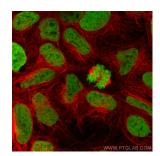
Immunohistochemical analysis of paraffinembedded mouse small intestine tissue slide using 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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