

For Research Use Only

Acetyl-Histone H4 (Lys12) Recombinant antibody



Catalog Number:83095-1-RR

Basic Information

Catalog Number: 83095-1-RR	GenBank Accession Number: BC069654	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 8359	CloneNo.: 1D18
Source: Rabbit	UNIPROT ID: P62805	Recommended Dilutions: WB 1:5000-1:50000 IF 1:150-1:600
Isotype: IgG	Full Name: histone cluster 1, H4a	
	Observed MW: 12 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA, Dot Blot	Positive Controls:
Species Specificity: Human, mouse	WB: Trichostatin A treated NIH/3T3 cells, IF: 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

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

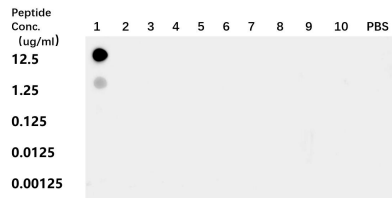
T: 4006900926

E: Proteintech-CN@ptglab.com

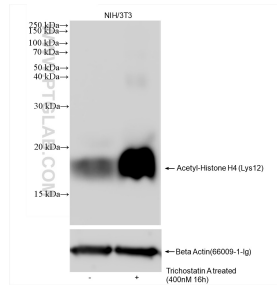
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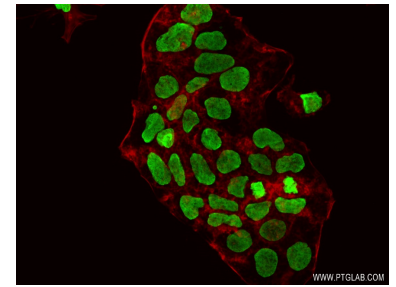
Selected Validation Data



Dot blot analysis was used to confirm the specificity of Histone H4K12ac antibody. Acetylated peptides were spotted onto NC and probed with antibody at 1 $\mu\text{g/ml}$. The amount of peptide ($\mu\text{g/ml}$) 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.



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).