Acetyl-Histone H4 (Lys12) Recombinant antibody, PBS Only

Catalog Number:83095-1-PBS

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Basic Information

Catalog Number:	83095-1-PBS
Size:	100ug , Concentration: 1 mg/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

Applications

Tested Applications:
WB, Dot Blot, Indirect ELISA

Species Specificity:
Human, mouse

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.
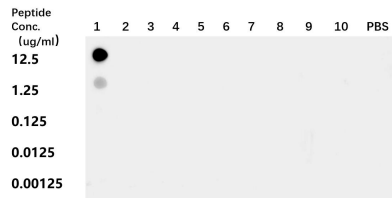
Storage

**Storage:**
Store at -80°C.
Storage Buffer:
PBS Only

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 (µg/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:
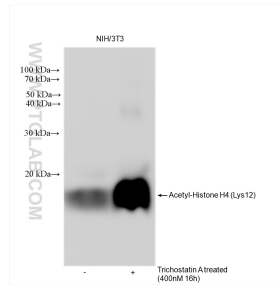
Untreated and trichostatin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83095-1-RR (Acetyl-Histone H4 (Lys12) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83095-1-PBS in a different storage buffer formulation.