For Research Use Only

Acetyl-Histone H3 (Lys14) Recombinant monoclonal antibody, PBS Only

Catalog Number:84543-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
84543-2-PBS

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC066245

GeneID (NCBI):
8350

UNIPROT ID:
P68431

Full Name:
histone cluster 1, H3a

Observed MW:
15 kDa

Purification Method:
Protein A purification

CloneNo.:
251230E11

Applications

Tested Applications:
WB, Dot Blot, Indirect ELISA, ChIP-qPCR

Species Specificity:
human, mouse

Background Information

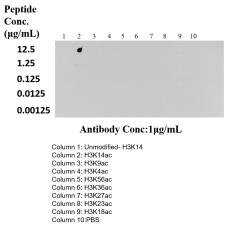
Histones are small, highly basic proteins that consist of a globular domain with unstructured N- and C-terminal tails protruding from the main structure. Histone H3 is one of the five main histones that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. In addition to their role in DNA compartmentalization, histones also play crucial roles in various biologic processes, including gene expression and regulation, DNA repair, chromatin condensation, cell cycle progression, chromosome segregation, and apoptosis. The ability of histones to regulate chromatin dynamics primarily originates from various posttranslational modifications carried out by histone-modifying enzymes.

Storage

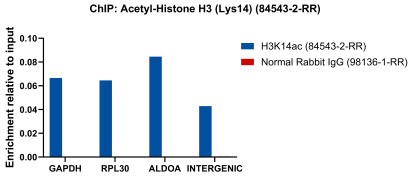
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

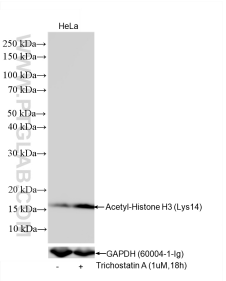
Selected Validation Data



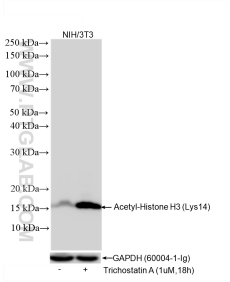
Dot blot analysis was used to confirm the specificity of 84543-2-RR Acetyl-Histone H3 (Lys14) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/ml.The amount of peptide (µ g/mL) spotted is indicated next to each row. This data was developed using the same antibody clone with 84543-2-PBS in a different storage buffer formulation.



Chromatin was prepared from HeLa cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Acetyl-Histone H3 (Lys14) (84543-2-RR) or 5 ug of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real-time PCR. This data was developed using the same antibody clone with 84543-2-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 84543-2-RR (Acetyl-Histone H3 (Lys14) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84543-2-PBS in a different storage buffer formulation.



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