For Research Use Only

Acetyl-Histone H2A (Lys9) Recombinant antibody

Catalog Number:83041-1-RR

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
83041-1-RR

Size:
600 ug/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC093836

GeneID (NCBI):
3012

UNIPROT ID:
P04908

Full Name:
histone cluster 1, H2ae

Calculated MW:
14 kDa

Observed MW:
14 kDa

Purification Method:
Protein A purification

CloneNo.:
230349B1

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:250-1:1000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, Dot Blot, ELISA

Species Specificity:
human, mouse

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,

IHC : mouse lung tissue,

IF/ICC : HeLa cells,

Background Information

Histone H2A is a core component of nucleosome. Histone variants contribute to chromatin complexity by creating specialized nucleosomes. Within nucleosomes, either one canonical H2A or both of them can be exchanged with a particular variant (heterotypic and homotypic nucleosomes, respectively), and such changes can have profound influences on nucleosome stability and biological outcome.

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:
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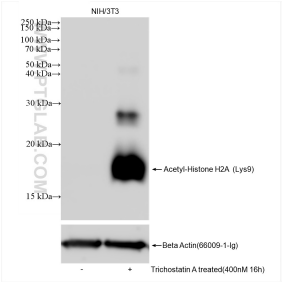
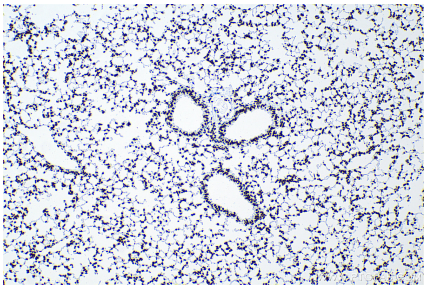
Selected Validation Data

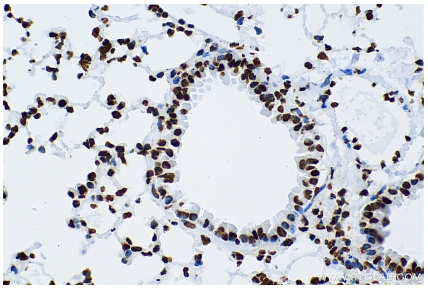
Dot blot analysis was used to confirm the specificity of Acetyl-Histone H2A (Lys9) antibody. Acetylated peptides were spotted onto NC and probed with antibody at 1 µg/ml.The amount of peptide (µ g/mL) spotted is indicated next to each row.Column 1: H2AEK9Ac. Column 2: Unmodified H2AEK9. Column 3: H2AEK5Ac. Column 4: Unmodified H2AEK5. Column 5: H2AEK13Ac. Column 6: Unmodified H2AEK13. Column 7: H2AEK15Ac. Column 8: Unmodified H2AEK15. Column 9:



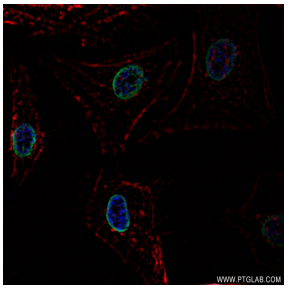
Trichostatin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83041-1-RR (Acetyl-Histone H2A (Lys9) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



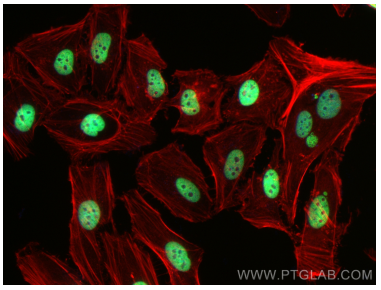
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83041-1-RR (Acetyl-Histone H2A (Lys9) antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



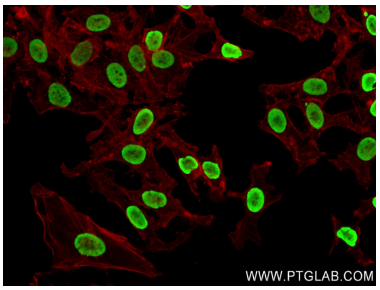
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83041-1-RR (Acetyl-Histone H2A (Lys9) antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Acetyl-Histone H2A (Lys9) antibody (83041-1-RR, Clone: 230349B1) at dilution of 1:150 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Acetyl-Histone H2A (Lys9) antibody (83041-1-RR, Clone: 230349B1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Acetyl-Histone H2A (Lys9) antibody (83041-1-RR, Clone: 230349B1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).