

For Research Use Only

# Acetyl-Histone H2A (Lys9) Recombinant antibody

Catalog Number: 83041-1-RR



## Basic Information

<b>Catalog Number:</b> 83041-1-RR	<b>GenBank Accession Number:</b> BC093836	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3012	<b>CloneNo.:</b> 230349B1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04908	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> histone cluster 1, H2ae	
	<b>Calculated MW:</b> 14 kDa	
	<b>Observed MW:</b> 14 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, Dot Blot, ELISA	<b>Positive Controls:</b> WB : Trichostatin A treated NIH/3T3 cells, IHC : mouse lung tissue, IF/ICC : HeLa cells,
<b>Species Specificity:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

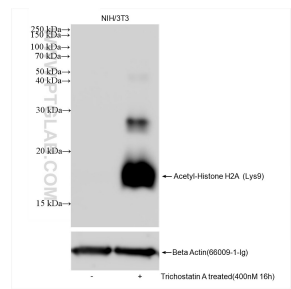
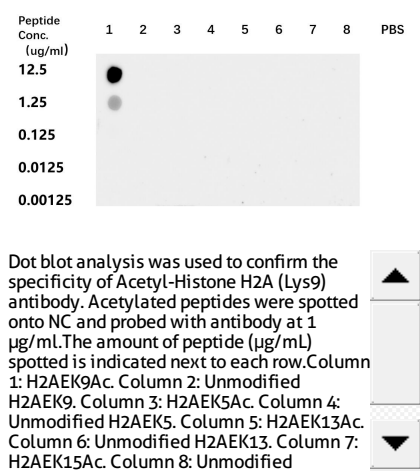
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

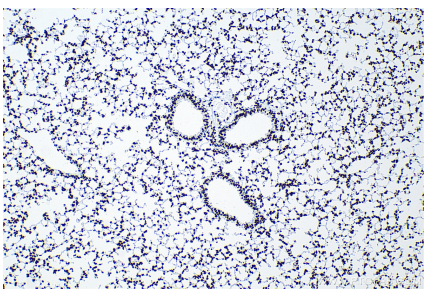
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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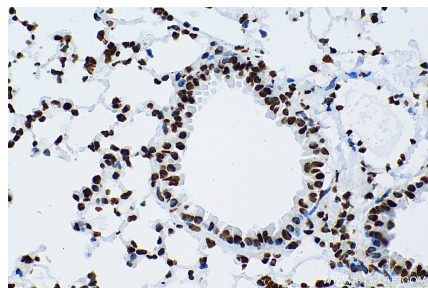
Selected Validation Data



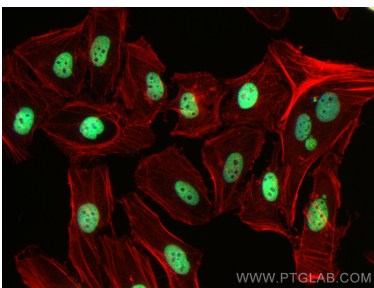
Trichostatin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 83041-1-RR (Acetyl-Histone H2A (Lys9) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



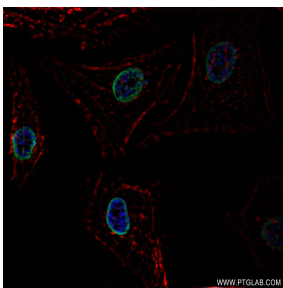
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83041-1-RR (Acetyl-Histone H2A (Lys9) antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



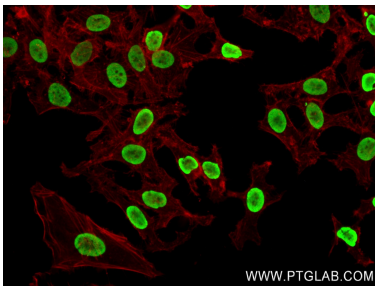
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83041-1-RR (Acetyl-Histone H2A (Lys9) antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Acetyl-Histone H2A (Lys9) antibody (83041-1-RR, Clone: 230349B1) at dilution of 1:400 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 1:150 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).