

## Anti-Acetyl-Histone H2A (Lys9) Antibody (5Q478)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 14 kDa.
Clone:	5Q478
Purification:	Protein A purified

### Applications

Verified Activity:	1. Blocking buffer: 5% NFDM/TBST
	Primary Ab dilution: 1:1000
	Primary Ab incubation condition: 4°C overnight
	Secondary Ab: (-): MCF-7, (+): MCF-7+sodium butyrate (50mM, 24 h)+trichostain A (500 ng/ml, 4 hr)
	Protein loading quantity: 20 µg
	Exposure time: 60 s
	Predicted MW: 14 KDa
	Observed MW: 14 KDa
	2. Blocking buffer: 5% NFDM/TBST
	Primary Ab dilution: 1:1000
Primary Ab incubation condition: 4°C overnight	
Secondary Ab: (-): NIH/3T3, (+): NIH/3T3+trichostain A (1 µM, 18 hr)	
Protein loading quantity: 20 µg	
Exposure time: 60 s	
Predicted MW: 14 KDa	
Observed MW: 14 KDa	
Application:	WB
Recommended	WB: 1:500-1000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Histone H2A (Acetyl-Lys9)  
Antigen Species: Human  
Gene ID: 3012  
Uniprot ID: P04908

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### Research Background

Histones are basic nuclear proteins 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. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a member of the histone H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Jul 2008].

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