

Histone H2A (Acetyl Lys15) Rabbit pAb

CatalogNo: YK0208 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 14kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, pH 7.4, containing 0.5% BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

WB 1:500-1000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthetic Peptide of Histone H2A (Acetyl Lys15)

Specificity The antibody detects endogenous Histone H2A (Acetyl Lys15) protein.

Target Information

Gene name HIST1H2AG/HIST1H2AI/HIST1H2AK/HIST1H2AL/HIST1H2AM/HIST2H2AA3/HIST2H2AA4/HIST3H2A

Protein Name Histone H2A type 1/Histone H2A type 2/Histone H2A type 3

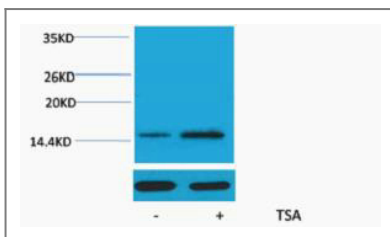
| Organism | Gene ID | UniProt ID |
|----------|--|--|
| Human | 8329 ; 8330 ; 8332 ; 8336 ; 8969 ; 723790 ; 8337 ; 92815 ; | P0C0S8 ; Q6FI13 ; Q7L7L0 ; |
| Mouse | 319164 ; 15267 ; 319162 ; | |
| Rat | 365877 ; 64646 ; | P02262 ; P0CC09 ; Q4FZT6 ; |

Cellular Localization Nucleus. Chromosome.

Tissue specificity Bone ,Brain ,Colon ,Eye ,Lymph ,PCR rescued clones ,Placenta ,Spleen

Function Function: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. ,mass spectrometry:Monoisotopic with N-acetylserine PubMed:16457589 ,PTM:Deiminated on Arg-4 in granulocytes upon calcium entry. ,PTM:Monoubiquitination of Lys-120 by RING1 and RNF2/RING2 complex gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. It is involved in the initiation of both imprinted and random X inactivation. Ubiquitinated H2A is enriched in inactive X chromosome chromatin. Ubiquitination of H2A functions downstream of methylation of 'Lys-27' of histone H3. Monoubiquitination of Lys-120 by RNF2/RING2 can also be induced by ultraviolet and may be involved in DNA repair. Following DNA double-strand breaks (DSBs) , it is ubiquitinated through 'Lys-63' linkage of ubiquitin moieties by the E2 ligase UBE2N and the E3 ligases RNF8 and RNF168 , leading to the recruitment of repair proteins to sites of DNA damage. Monoubiquitination and ionizing radiation-induced 'Lys-63'-linked ubiquitination are distinct events. ,PTM:Phosphorylation on Ser-2 is enhanced during mitosis. Phosphorylation on Ser-2 by RPS6KA5/MSK1 directly represses transcription. Acetylation of H3 inhibits Ser-2 phosphorylation by RPS6KA5/MSK1. ,PTM:Symmetric dimethylation on Arg-4 by the PRDM1/PRMT5 complex may play a crucial role in the germ-cell lineage. ,PTM:The chromatin-associated form is phosphorylated on Thr-121 during mitosis. ,similarity:Belongs to the histone H2A family. ,subunit:The nucleosome is a histone octamer containing two molecules each of H2A , H2B , H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. ,

Validation Data



Western blot analysis of extracts from HeLa cells, untreated (-) or treated, 1:5000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000

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**Histone H2A (Acetyl
Lys15) Rabbit pAb**

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