



# Histone H2A (Phospho Ser129) Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-01511                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applications       | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Name          | HIST1H2AG/HIST1H2AI/HIST1H2AK/HIST1H2AL/HIST1H2AM/HIST2H2AA3/HIST2H2AA4/HIST3H2A                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein Name       | Histone H2A type 1/Histone H2A type 2/Histone H2A type 3                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen          | Synthetic Peptide of Histone H2A (Phospho Ser129)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity        | The antibody detects endogenous Histone H2A (Phospho Ser129) protein.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Formulation        | PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                      |
| Dilution           | WB: 1:1000-2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Synonyms           | HIST1H2AG; H2AFP; HIST1H2AI; H2AFC; HIST1H2AK; H2AFD; HIST1H2AL; H2AFI; HIST1H2AM; H2AFN; Histone H2A type 1; H2A.1; Histone H2A/p; HIST2H2AA3; H2AFO; HIST2H2AA; HIST2H2AA4; Histone H2A type 2-A; Histone H2A.2; Histone H2A/o; HIST3H2A; Histone H2A type 3                                                                                                                                                                                                                                                     |
| Observed Band      | 14kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cell Pathway       | Nucleus. Chromosome.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tissue Specificity | Bone,Brain,Colon,Eye,Lymph,PCR rescued clones,Placenta,Sple                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 |

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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 chromosom

## 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 replication-dependent histone that is 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, Aug 2015],

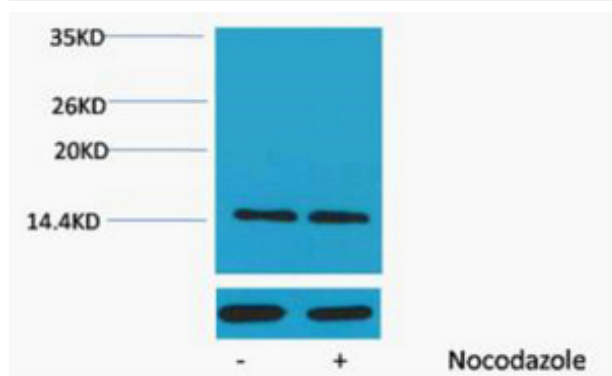
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



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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