

Histone H2A Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10466**Specification**

Histone H2A Antibody - Product Information

Application	WB
Primary Accession	Q93077
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	14105

Histone H2A Antibody - Additional Information**Gene ID** 8334

Application & Usage	Western blotting (0.5-4 µg/ml), immunoprecipitation (10-20 µg/ml) and Immunohistochemistry (10-30 µg/ml). However, the optimal conditions should be determined individually. The antibody detects ~14 kDa histone H2A protein. It does not cross-react with other histones. HeLa cell nuclear extract can be used as a positive control.
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Other Names

H2AFX , H2A/X , H2A.X , H2AX , H2a/x

Target/Specificity

Histone H2A

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-Histone H2A polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Histone H2A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Histone H2A Antibody - Protein Information

Name H2AC6 ([HGNC:4733](#))

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.

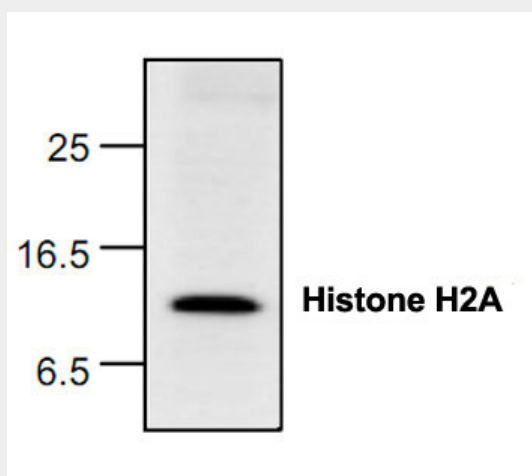
Cellular Location

Nucleus. Chromosome.

Histone H2A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Histone H2A Antibody - Images

Western blot analysis of Histone H2A expression with HeLa nuclear lysate.

Histone H2A Antibody - Background

The nucleosome is made up of four core histone proteins (H2A, H2B, H3 and H4) and is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranscriptional modification including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression.