

Histone H2AX Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10580**Specification**

Histone H2AX Antibody - Product Information

Application	WB, IF
Primary Accession	P16104
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	15145

Histone H2AX Antibody - Additional Information**Gene ID** 3014**Application & Usage**

Western blotting (1:500 - 1:2500) and immunofluorescence (1:50-1:100). However, the optimal concentrations should be determined individually. The antibody recognizes the H2AX of human and mouse origins. Reactivity to other species has not been tested.

Other Names

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

Target/Specificity

Histone H2AX

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µl affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 1% BSA and 0.02% sodium azide.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Histone H2AX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Histone H2AX Antibody - Protein Information

Name H2AX ([HGNC:4739](#))

Function

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. 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. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.

Cellular Location

Nucleus. Chromosome

Histone H2AX 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 H2AX Antibody - Images**Histone H2AX Antibody - Background**

H2AX is a member of the histone H2A family. The four core histones involved in the formation of the nucleosome structure of compacted chromatin are H2A, H2B, H3, and H4. H2AX may function to facilitate DNA repair, and recent studies have shown that H2AX is required for the maintenance of genomic stability.