10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

# Histone H2A.X (Phospho Tyr142) Polyclonal Antibody

**Catalog # AP63457**

## Specification

### Histone H2A.X (Phospho Tyr142) Polyclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P16104 |
| Reactivity | **Human, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |

### Histone H2A.X (Phospho Tyr142) Polyclonal Antibody - Additional Information

**Gene ID** 3014

**Other Names**
H2AFX; H2AX; Histone H2A.x; H2a/x

**Dilution**
WB~~WB: 1:1000-2000

**Format**
PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

**Storage Conditions**
-20℃

### Histone H2A.X (Phospho Tyr142) Polyclonal 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 H2A.X (Phospho Tyr142) Polyclonal Antibody - Protocols

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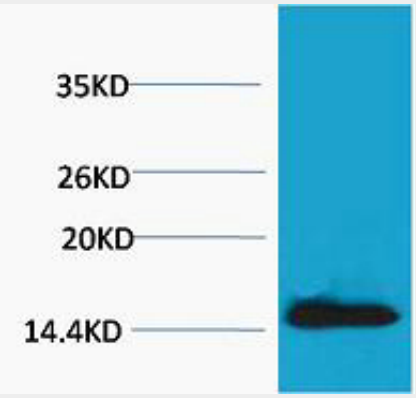
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Histone H2A.X (Phospho Tyr142) Polyclonal Antibody - Images**




**Histone H2A.X (Phospho Tyr142) Polyclonal Antibody - Background**

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.