

**Anti-Histone H2A.X H2AFX Rabbit Monoclonal Antibody**  
Catalog # ABO14140**Specification****Anti-Histone H2A.X H2AFX Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP
Primary Accession	<a href="#">P16104</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Histone H2A.X H2AFX Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Histone H2A.X H2AFX Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 3014

**Other Names**

Histone H2AX, H2a/x, Histone H2A.X, H2AX ([HGNC:4739](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4739))

**Calculated MW**

15145 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50

**Subcellular Localization**

Nucleus. Chromosome.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Histone H2A.X

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-Histone H2A.X H2AFX Rabbit Monoclonal 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

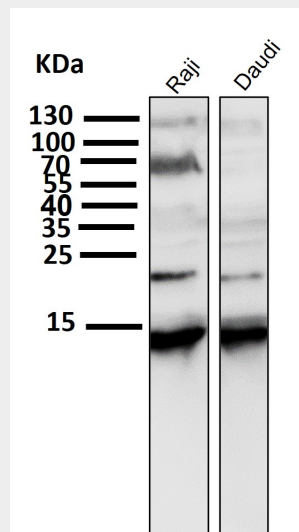
Nucleus. Chromosome

## Anti-Histone H2A.X H2AFX Rabbit Monoclonal Antibody - Protocols

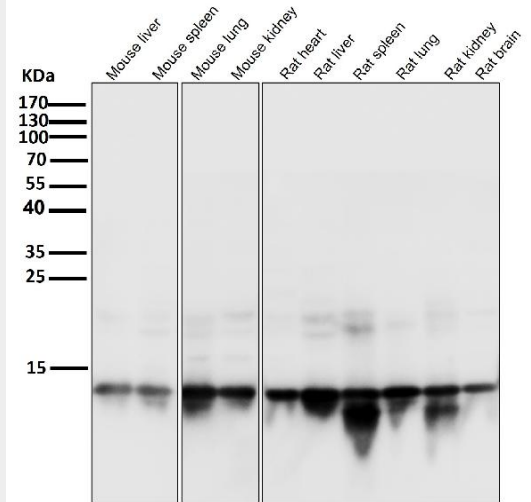
Provided below are standard protocols that you may find useful for product applications.

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

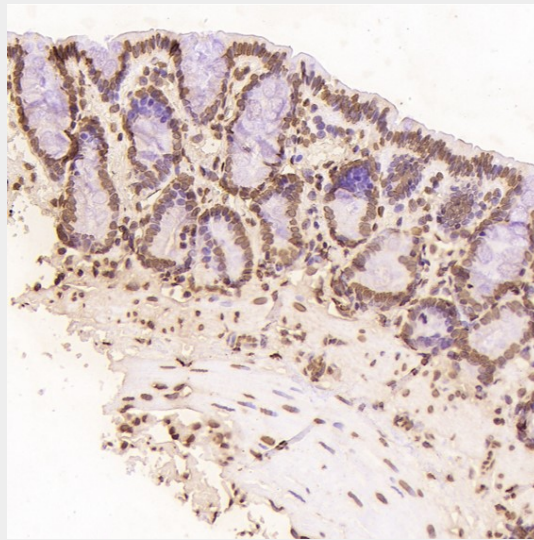
## Anti-Histone H2A.X H2AFX Rabbit Monoclonal Antibody - Images



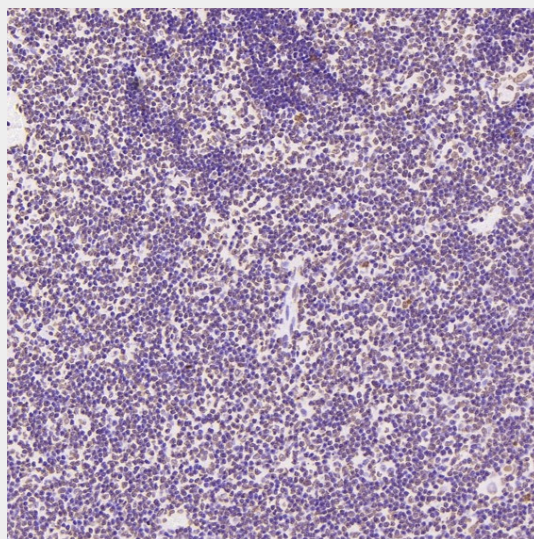
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.

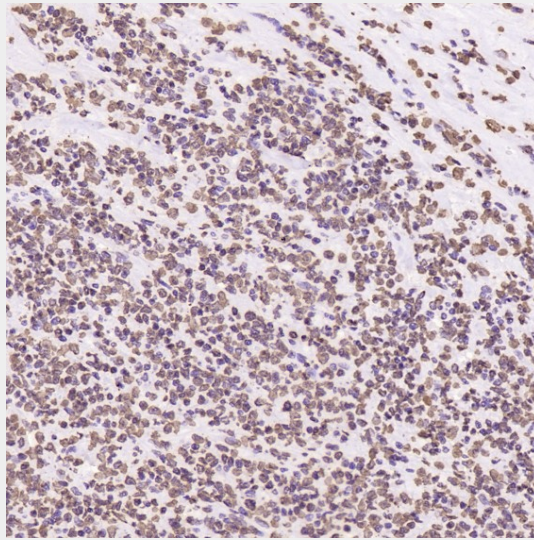


Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:500 dilution.

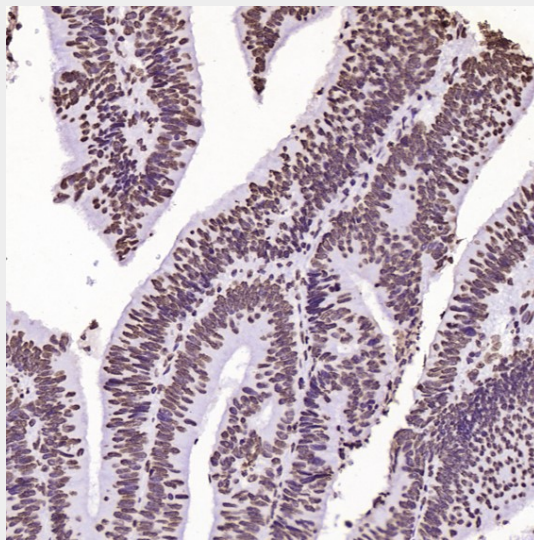


Immunohistochemical analysis of paraffin-embedded Rat pancreas, using the Antibody at 1:500 dilution.

dilution.

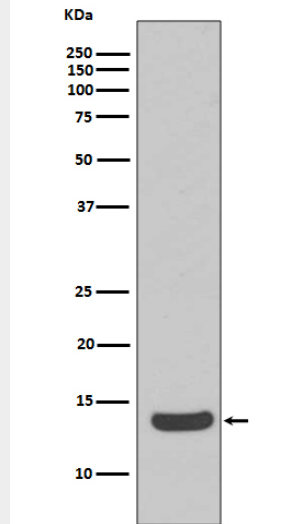


Immunohistochemical analysis of paraffin-embedded Human Hodgkin's lymphoma, using the Antibody at 1:250 dilution.

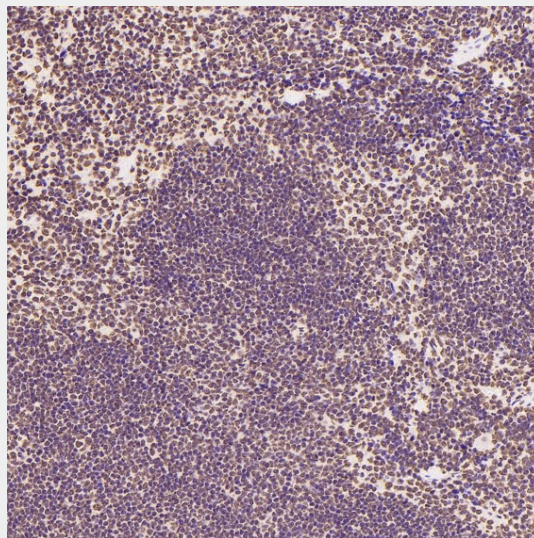


Immunohistochemical analysis of paraffin-embedded Human colon cancer, using the Antibody at 1:1000 dilution.

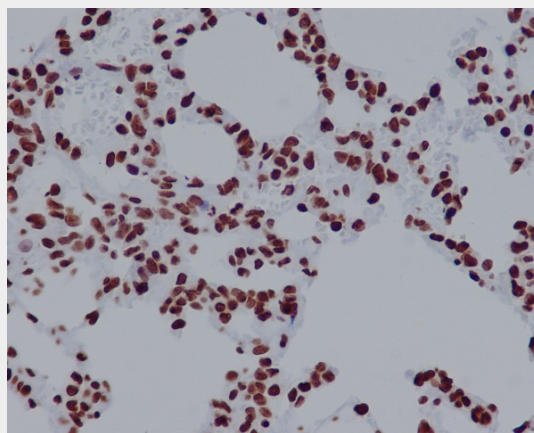




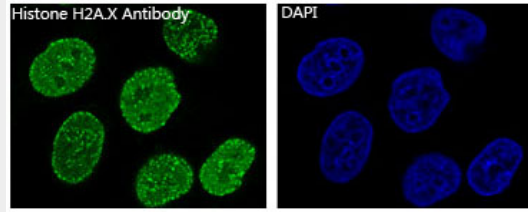
Western blot analysis of Histone H2A.X expression in Raji cell lysates.



Immunohistochemical analysis of paraffin-embedded Mouse spleen, using the Antibody at 1:500 dilution.



Immunohistochemical analysis of paraffin-embedded rat lung, using Histone H2A.X Antibody.



Immunofluorescent analysis of HeLa cells, using Histone H2A.X Antibody.