10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	P16104
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)

Calculated MW
15145 MW KDa

Application Details
WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
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.**

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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 Cytomety
- 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.

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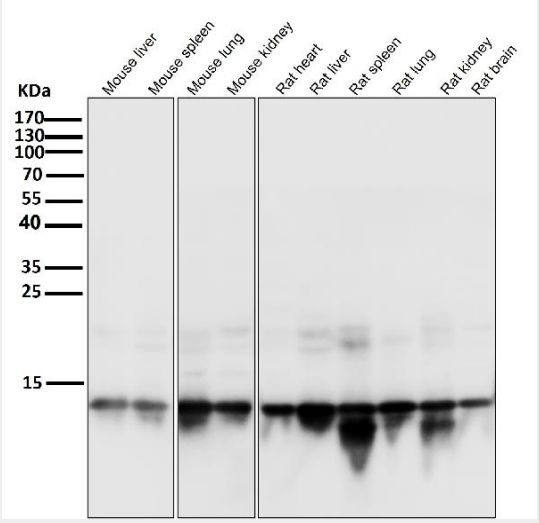
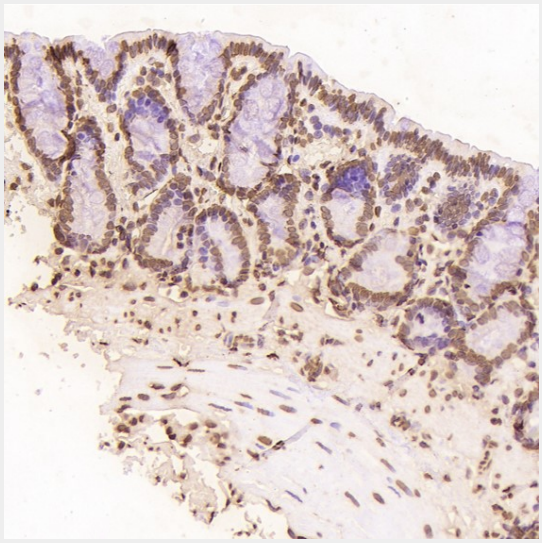
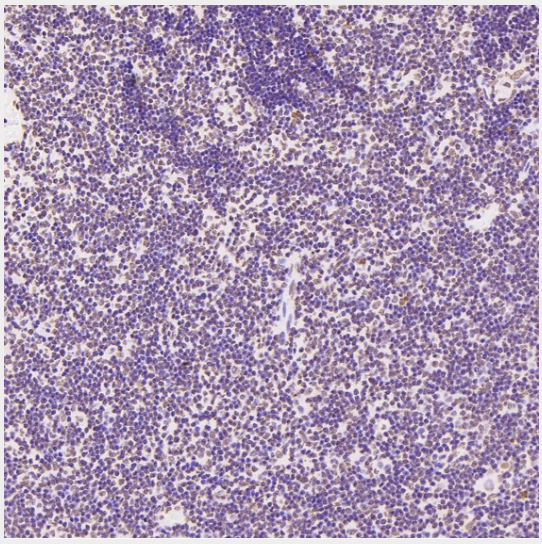


All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.

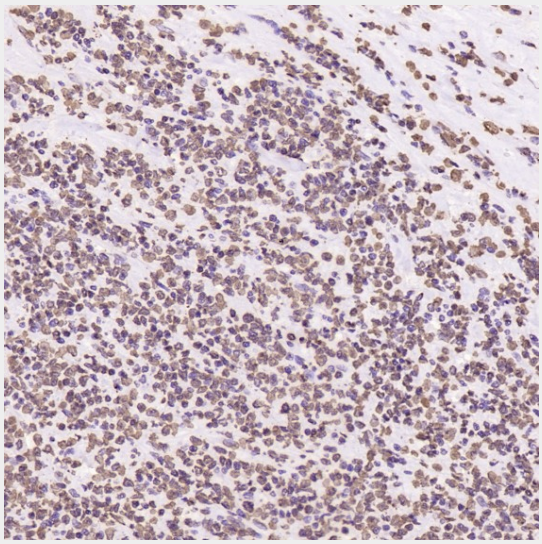


Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:500 dilution.

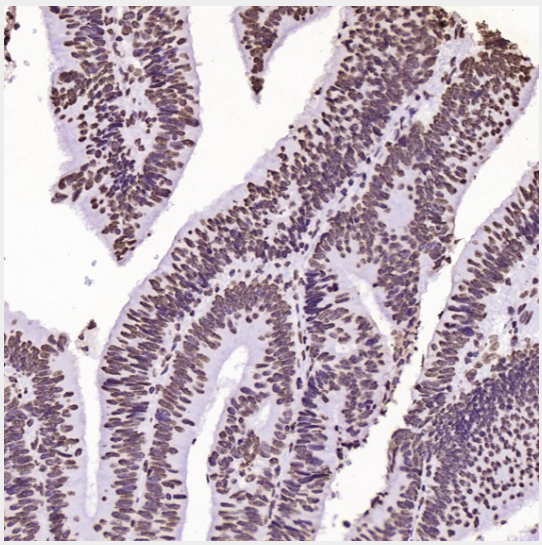


Immunohistochemical analysis of paraffin-embedded Rat pancreas, using the Antibody at 1:500

dilution.



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.

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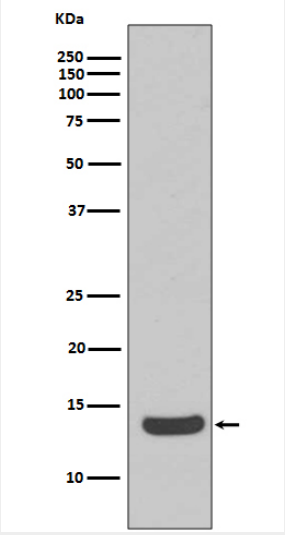
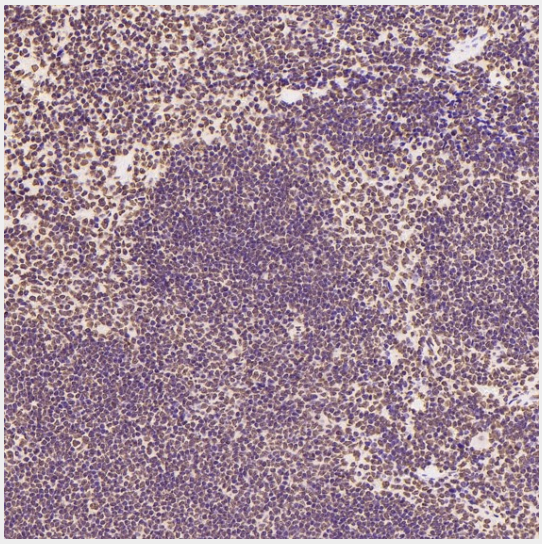
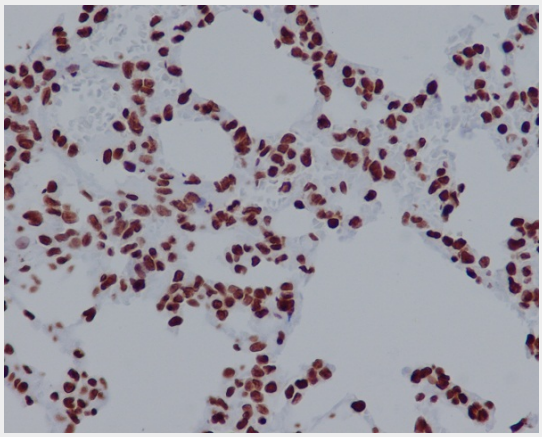


Western blot analysis of Histone H2A.X expression in Raji cell lysates.



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.

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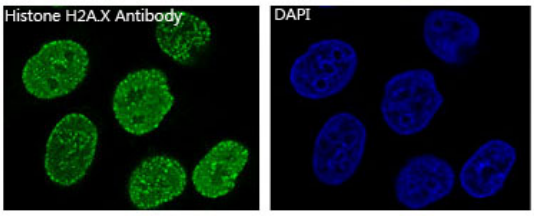

Immunofluorescent analysis of Hela cells, using Histone H2A.X Antibody.