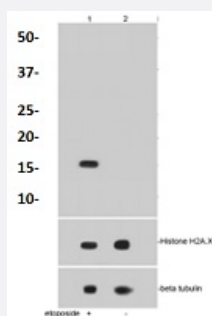


RecomAb™

# H2AX (phospho S139) recombinant monoclonal antibody

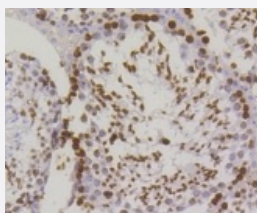
Catalog # RAB02688      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of Lane1: HepG2 cell lysate—treated with etoposide  
Lane2: HepG2 cell lysate—untreated with H2AX (phospho S139) recombinant monoclonal antibody (Cat # RAB02688) at 1:1000 dilution.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue using H2AX (phospho S139) recombinant monoclonal antibody (Cat # RAB02688). Counter stained with hematoxylin.

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against H2AX.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against recombinant H2AX.
<b>Theoretical MW (kDa)</b>	15
<b>Reactivity</b>	Human, Mouse, Rat
<b>Specificity</b>	This antibody detects endogenous levels of Histone H2A.X protein only when phosphorylated at Ser139.

Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

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## Gene Info — H2AFX

Entrez GeneID	<a href="#">3014</a>
Protein Accession#	<a href="#">P16104</a>
Gene Name	H2AFX
Gene Alias	H2A.X, H2A/X, H2AX
Gene Description	H2A histone family, member X
Omim ID	<a href="#">601772</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq]

**Other Designations**

H2AX histone

**Pathway**

- [Systemic lupus erythematosus](#)

**Disease**

- [Azoospermia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)
- [Lymphoma](#)
- [Oligospermia](#)
- [Ovarian cancer](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Urinary Bladder Neoplasms](#)