

#11268

## Histone H2A.X (Phospho-Ser139) Antibody



**Catalog:** #11268-1 50µl **Orders:** [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
#11268-2 100µl **Support:** [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)  
**Storage:** Store at -20°C/1 year **Web:** [www.signalwayantibody.com](http://www.signalwayantibody.com)

Application	Species Reactivity	Source	Molecular Wt.
WB IF	Human	Rabbit Polyclonal Ab	15KD

**Description:** Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

**Specificity:** The antibody detects endogenous level of Histone H2A.X only when phosphorylated at serine 139.

**Immunogen:** Peptide sequence around phosphorylation site of serine 139 (Q-A-S(p)-Q-E) derived from Human Histone H2A.X.

**Formulation:** Supplied at 1.0mg/mL in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Synonyms:** H2A.X H2AFX H2a/x HIST5-2AX

**Accession No.:** Swiss-Prot#: P16104 NCBI Gene#: 3014  
NCBI Protein#: NP\_002096.1

**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.

### References:

Yaneva M, et al. (2005) Nucleic Acids Res. 33(16): 5320-5330.  
Tsukuda T, et al.(2006) Nature. Author manuscript; available in PMC 2006 March 6.

### Citation:

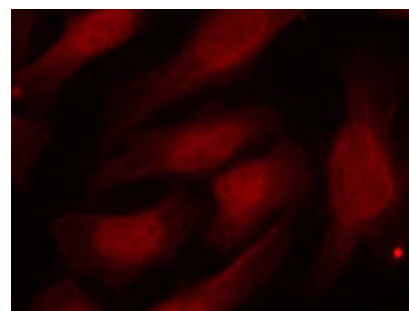
If you publish research using #11268 please [let us know](#).

**Related Pathway:** Cell Cycle, Chromatin/Transcription

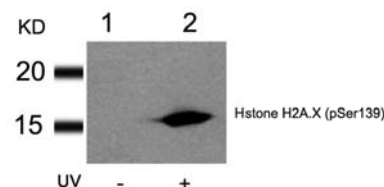
**Note:** For western blotting, incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

### Recommended Dilutions:

Western blotting 1:500~1:1000  
Immunofluorescence 1:100~1:200



Immunofluorescence staining of methanol-fixed HeLa cells using Histone H2A.X (Phospho-Ser139) Antibody #11268.



Western blot analysis of extracts from HT29 cells untreated (lane 1) or treated with UV (lane 2) using Histone H2A.X (Phospho-Ser139) Antibody #11268.