

## Phospho-Histone H2A.X (Ser139) (2A9) Mouse mAb

db6249

Package : 50µL 100µL

**Product Name** : Phospho-Histone H2A.X (Ser139) (2A9) Mouse mAb**Cat.No.:** db6249**Synonyms** : H2AX; H2AFX; H2a/x; HIST5-2AX; Histone H2AX**Application** : WB, ICC/IF**Reactivity** : Human, Mouse**Host species** : Mouse**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.

**Immunogen**

Synthetic phosphopeptide corresponding to residues surrounding Ser139 of human H2A.X

**Gene ID**

3014

**Swiss Prot**

P16104

**Synonyms**

H2AX; H2AFX; H2a/x; HIST5-2AX; Histone H2AX

**Reactivity**

Human, Mouse

**Application**

WB, ICC/IF

**Recommended dilution**

WB: 1:500-1:1000

ICC/IF: 1:50-1:200

**Calculated MW**

15 kDa

**Observed MW**

15 kDa

**Host species**

Mouse

**Clonality**

Monoclonal

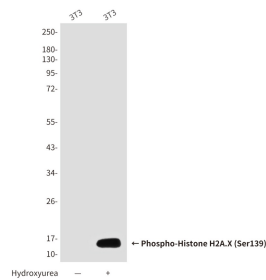
**Clonality No.**

2A9-B5

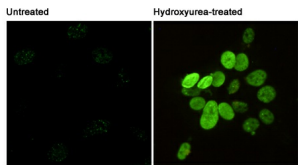
**Isotype**

IgG2a

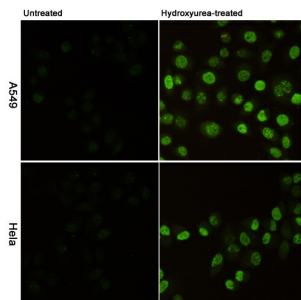
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



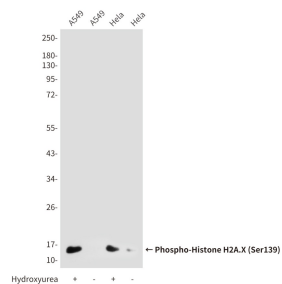
Western blot analysis of Phosphorylation of H2A.X at Serine 139 in 3T3 or Hydroxyurea-treated 3T3 lysates using Phospho-Histone H2A.X (Ser139) antibody.



Immunofluorescence analysis of Phospho-Histone H2A.X (Ser139) (2A9) in 3T3 or Hydroxyurea-treated 3T3 using Phospho-Histone H2A.X (Ser139) (2A9) antibody



Immunofluorescence analysis of Phospho-Histone H2A.X (Ser139) (2A9) in A549 (upper, untreated or Hydroxyurea-treated) and HeLa (lower, untreated or Hydroxyurea-treated) using Phospho-Histone H2A.X (Ser139) antibody.



Western blot analysis of Phospho-Histone H2A.X (Ser139) (2A9) in untreated or Hydroxyurea-treated HeLa and A549 lysates using Phospho-Histone H2A.X (Ser139) (2A9) antibody (upper) or betaActin antibody(2000688F10) (lower).