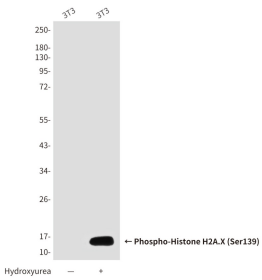
Phospho-Histone H2A.X (Ser139) (2A9) Mouse mAb

db6249 **Package : 50μL 100μL**

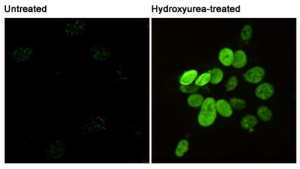
Product Name : Phospho-Histone H2A.X (Ser139) (2A9) Mouse mAb
Cat.No.: db6249
Synonyms : H2AX; H2AFX; H2a/x; HIST5-2AX; Histone H2AX
Application : WB, ICC/IF
Reactivity : Human, Mouse
Host species : Mouse

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

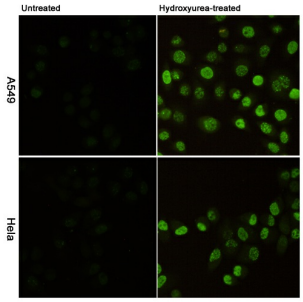
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



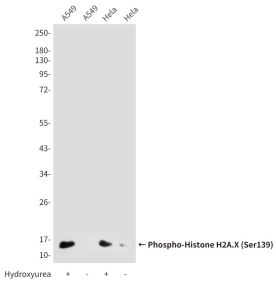
Western blot analysis of Phosphorylation of H2A.X at Serine 139 in 3T3 or Hydroxyureatreated 3T3 lysates using Phospho-Histone H2A.X (Ser139) antibody.



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



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



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