

**Cat. No:** ABP-0640

**Conjugate:** Unconjugated

**Size:** 100 ug

**Clone:** POLY

**Concentration:** 1mg/ml

**Host:** Rabbit

**Isotype:** IgG

**Immunogen:** The antiserum was produced against synthesized peptide derived from human Histone H2A.X around the phosphorylation site of Ser139. AA range:94-143.

**Reactivity:** Human;Mouse;Rat;Hamster

**Applications:** Western Blot: 1:500 - 1:2000  
Immunohistochemistry: 1:100 - 1:300  
Immunofluorescence: 1:50-200  
ELISA: 1:10000

**Molecular Weight:** 15 kDa

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

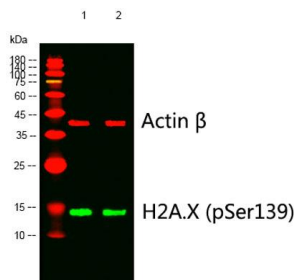
**Synonyms:** H2AFX; H2AX; Histone H2A.x; H2a/x

**Background:** 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 replication-independent histone that is 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.

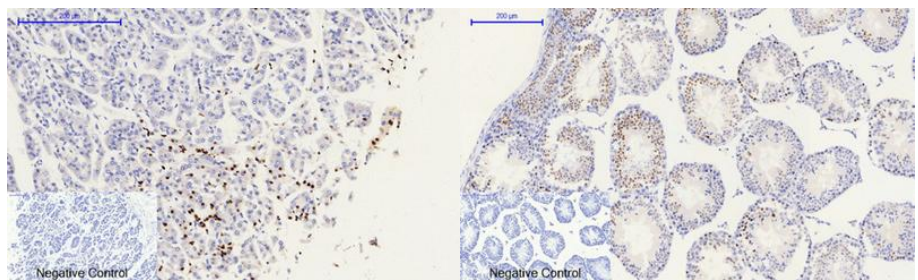
**Form:** Liquid

**Buffer:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Storage:** Store at -20°C. Avoid repeated freeze-thaw cycles.



Western blot analysis of lysates from 1) 4T1, 2) 293 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour. (Red)



Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1, Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium

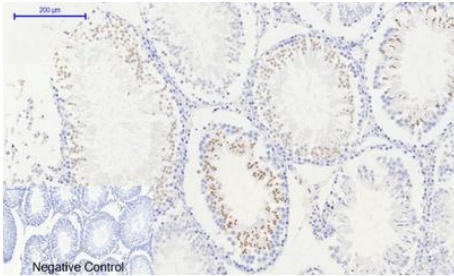
Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1, Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C, overnight).

**Product Data Sheet:  
Phospho Histone H2A.X (Ser139) Rabbit Polyclonal  
Antibody**

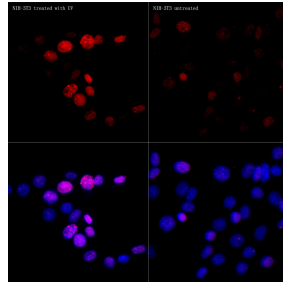
Actin  $\beta$  Monoclonal Antibody(5B7)

citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.

2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-testis tissue.  
1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight).  
2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min).  
3,Secondary antibody was



Immunofluorescence analysis of NIH-3T3 (treated with UV,30 mJ/cm<sup>2</sup>) and NIH/3T3 (untreated), using Phospho-Histone H2AXS139 Rabbit PAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.

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