

## Histone H2A.X rabbit pAb

**Cat#: orb765400 (Manual)**

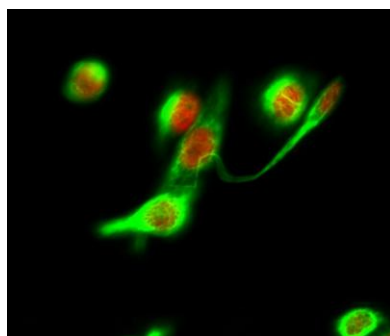
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Histone H2A.X rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;CoIP;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. IP 1:200-500,ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Histone H2A.X. AA range:94-143
<b>Specificity</b>	Histone H2A.X Polyclonal Antibody detects endogenous levels of Histone H2A.X protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Histone H2A.x
<b>Gene Name</b>	H2AFX
<b>Cellular localization</b>	Nucleus . Chromosome .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

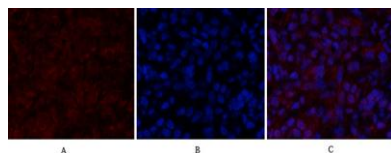
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	19kD
<b>Human Gene ID</b>	3014
<b>Human Swiss-Prot Number</b>	P16104
<b>Alternative Names</b>	H2AFX; H2AX; Histone H2A.x; H2a/x

## Background

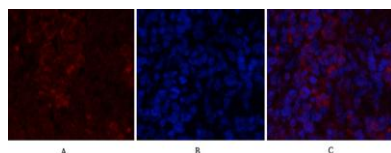
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. 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. [provided by RefSeq, Oct 2015].



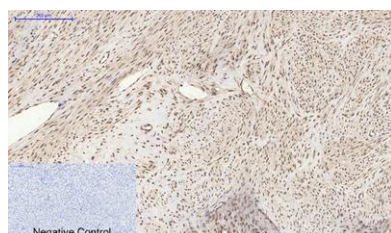
**Immunofluorescence analysis of HeLa cell.** 1, Histone H2A.X Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). LC3B Polyclonal Antibody (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50 min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50 min).



**Immunofluorescence analysis of rat-lung tissue.** 1, Histone H2A.X Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



**Immunofluorescence analysis of rat-spleen tissue.** 1, Histone H2A.X Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



**Immunohistochemical analysis of paraffin-embedded Human-uterus tissue.** 1, Histone H2A.X Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20 min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30 min). Negative control was used by secondary antibody only.