

## Product datasheet for **TA377041**

### Histone H2A.X (H2AFX) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB,1:500 - 1:1000 IHC,1:50 - 1:200 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat, Other (Wide Range)
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 50 to the C-terminus of human Histone H2AX (NP_002096.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	15kDa
Gene Name:	H2A histone family member X
Database Link:	<a href="#">Entrez Gene 3014 Human P16104</a>



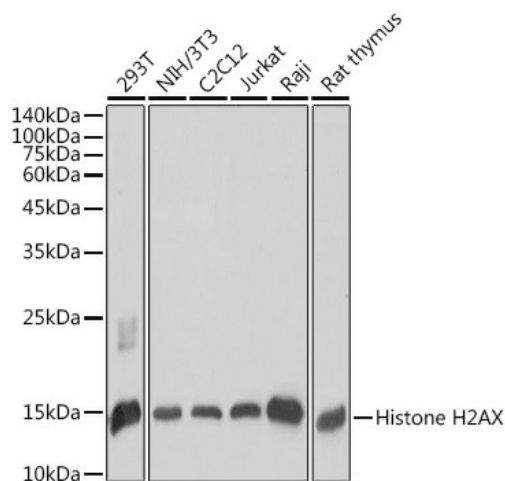
[View online »](#)

**Background:**

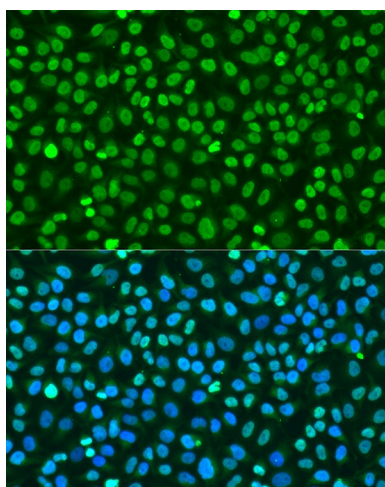
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes.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

**Synonyms:**

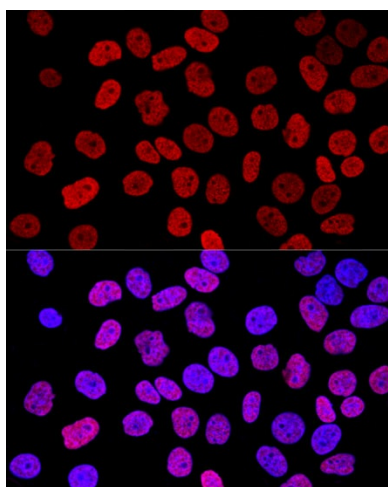
H2A.X; H2A/X; H2AX

**Product images:**


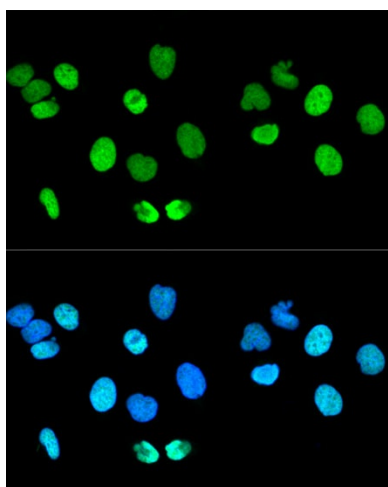
Western blot analysis of extracts of various cell lines, using Histone H2AX antibody (TA377041) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 10s.



Immunofluorescence analysis of U2OS cells using Histone H2AX Rabbit pAb (TA377041) at dilution of 100 (40x lens). Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of HeLa cells using Histone H2AX Polyclonal Antibody (TA377041) at dilution of 1:400. Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of U-2 OS cells using Histone H2AX Polyclonal Antibody (TA377041) at dilution of 1:400. Blue: DAPI for nuclear staining.