

## Product datasheet for **AP01346PU-N**

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

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200. <b>Immunofluorescence:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	Histone H2A.X antibody detects endogenous levels of Histone H2A.X protein. (region surrounding Ser130)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 19 kDa
Gene Name:	H2A histone family member X
Database Link:	<u><a href="#">Entrez Gene 15270 Mouse</a></u> <u><a href="#">Entrez Gene 500987 Rat</a></u> <u><a href="#">Entrez Gene 3014 Human</a></u> <u><a href="#">P16104</a></u>



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**Background:**

H2A.X is a member of the histone H2A family, 1 of 5 families of histone proteins involved in nucleosomal organization of chromatin. H2A.X is synthesised in G1 as well as S phase and is known to be important for recombination between immunoglobulin switch regions. A very early step in the response of mammalian cells to DNA double-strand breaks is the phosphorylation of histone H2A.X at serine 139 at the sites of DNA damage. There is a predicted acetylation at residue 1 and ubiquitination at residue 119. Phosphorylated H2A.X promotes DNA repair and maintains genomic stability.

**Synonyms:**

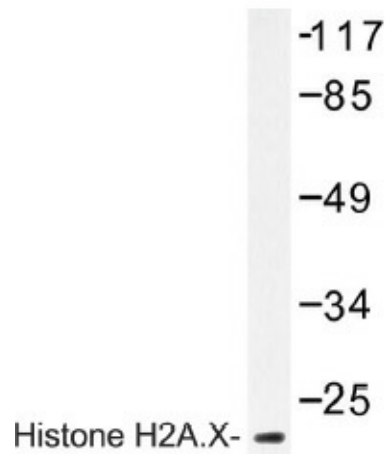
H2a/x, H2AFX, H2AX

**Protein Families:**

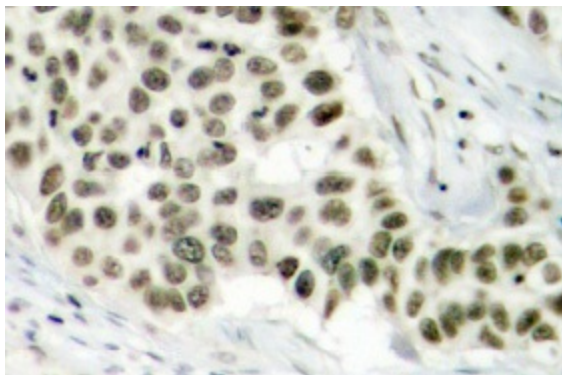
Druggable Genome

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**


Western blot (WB) analysis of Histone H2A.X antibody (Cat.-No.: AP01346PU-N) in extracts from HT29 cells.



Immunohistochemistry (IHC) analyzes of Histone H2A.X antibody (Cat.-No.: AP01346PU-N) in paraffin-embedded human breast carcinoma tissue.