

## Product datasheet for **AP02515PU-N**

### Histone H2A.X (H2AFX) pSer139 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human Histone H2A.X around the phosphorylation site of serine 139 (Q-A-SP-Q-E).
Specificity:	This antibody detects endogenous levels of Histone H2A.X only when phosphorylated at Serine 139.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	H2A histone family member X
Database Link:	<a href="#">Entrez Gene 3014 Human P16104</a>



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**Background:**

Histone H2A.X is a member of the histone H2A family, 1 of 5 families of histone proteins involved in nucleosomal organization of chromatin. Histone 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 Histone H2A.X promotes DNA repair and maintains genomic stability.

**Synonyms:**

H2a/x, H2AFX, H2AX

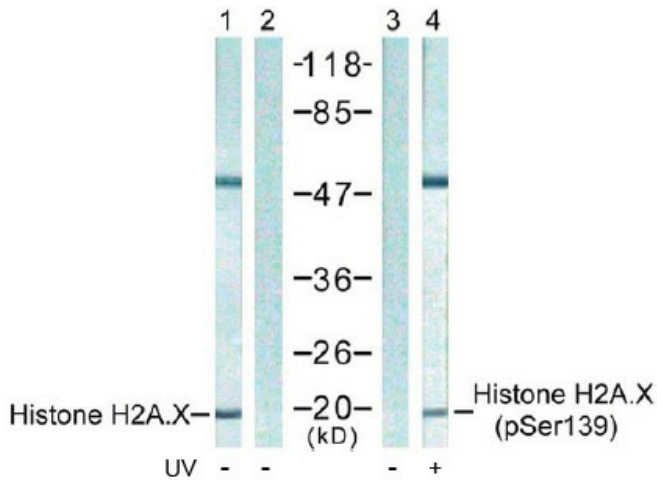
**Product images:**


Figure 1. Western blot analysis of extract from 293 cells untreated or treated with UV, using Histone H2A.X antibody (Lane 1 and 2) and Histone H2A.X pSer139 antibody (Lane 3 and 4).

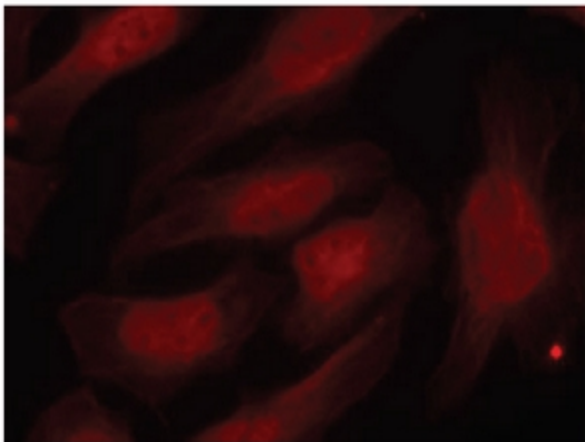


Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using Histone H2A.X pSer139 antibody (Red).