

Product datasheet for **AP02761PU-S**

Histone H2A.X (H2AFX) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/100. Immunofluorescence: 1/100 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-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 total Histone H2A.X protein.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4 containing 150mM NaCl, 0.02% Sodium Azide as preservative and 50% Glycerol as stabilizer. State: Aff - Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	H2A histone family member X
Database Link:	Entrez Gene 3014 Human P16104



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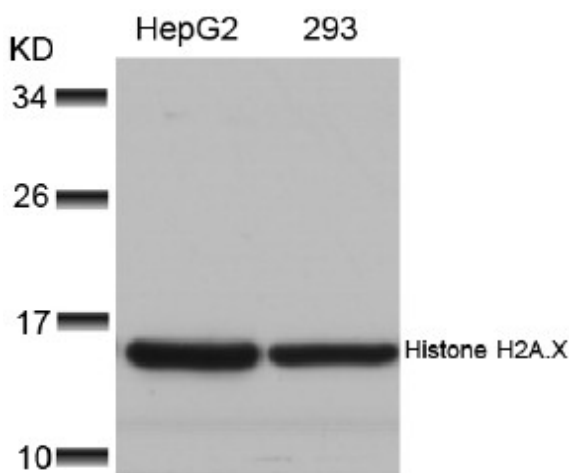
Background:

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 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.

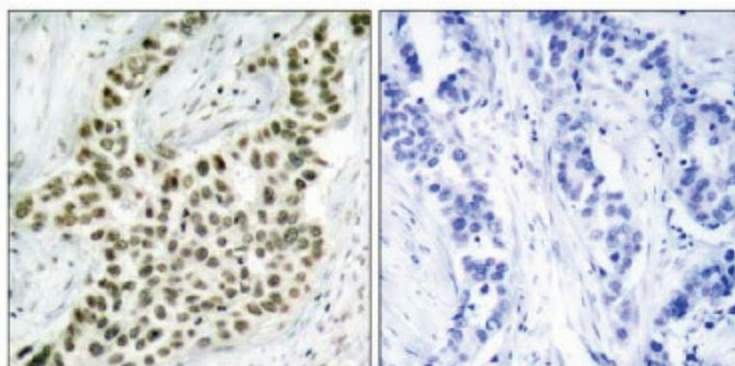
H2AX is an early responder to DNA damage, and its change to what is known as gamma-H2AX is important for the coordination of signaling and repair activities.

Synonyms:

H2a/x, H2AFX, H2AX

Product images:


Western blot analysis of extracts from HepG2 and 293 cells using Histone H2A.X antibody

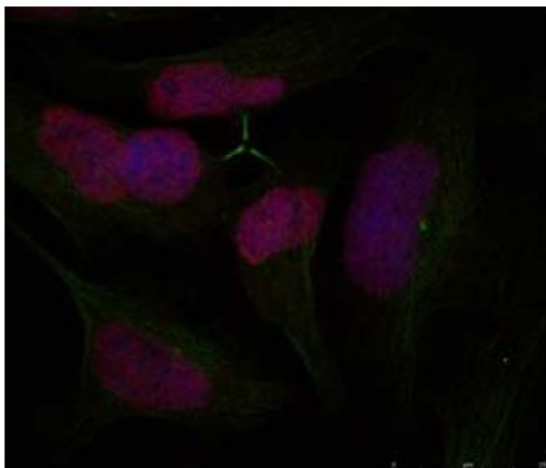


Peptide

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Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H2A.X antibody.



Immunofluorescence staining of methanol-fixed HeLa cells using Histone H2A.X antibody