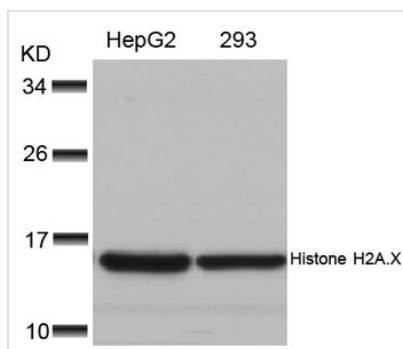


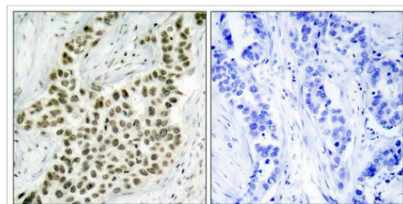


Histone H2A.X (Ab-139) Antibody

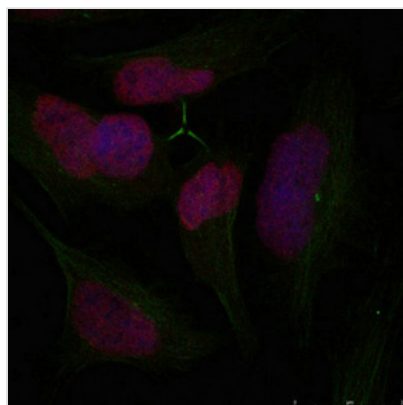
Product Code	CSB-PA954201
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P16104
Immunogen	Peptide sequence around aa.137~141 (Q-A-S-Q-E) derived from Human Histone H2A.X.
Raised In	Rabbit
Species Reactivity	Human
Specificity	The antibody detects endogenous level of total Histone H2A.X protein.
Tested Applications	ELISA, WB, IHC, IF; WB:1:500-1:1000, IHC:1:50-1:200, IF:1:100-1:200
Relevance	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation Yaneva M, et al. (2005) Nucleic Acids Res. 33(16): 5320-5330. Tsukuda T, et al.(2006) Nature. Author manuscript; available in PMC 2006 March 6
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Clonality	Polyclonal
Alias	H2A.X; H2AFX; H2a/x; HIST5-2AX;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	H2AFX
Image	



Western blot analysis of extracts from HepG2 and 293 cells using Histone H2A.X(Ab-139) Antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H2A.X(Ab-139) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using Histone H2A.X(Ab-139) Antibody.