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Anti-Histone H2A.X (pS139) Antibody

Rabbit polyclonal antibody to Histone H2A.X (pS139)
Catalog # AP60698

Product Information

Application	WB, FC, IP, IHC
Primary Accession	P16104
Other Accession	P27661
Reactivity	Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15145

Additional Information

Gene ID	3014
Other Names	H2AX; Histone H2AX; H2a/x; Histone H2A.X
Target/Specificity	Recognizes endogenous levels of Histone H2A.X (pS139) protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100), FC (1/100 - 1/200) FC~~1:10~50 IP~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100), FC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

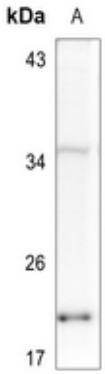
Protein Information

Name	H2AX (HGNC:4739)
Function	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.
Cellular Location	Nucleus. Chromosome

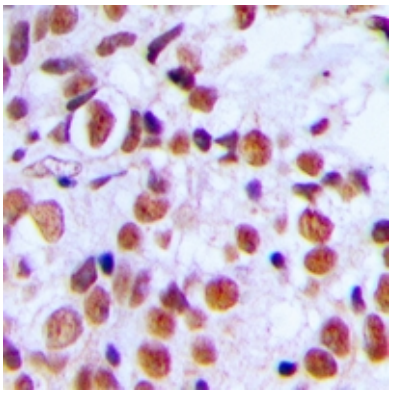
Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Histone H2A.X. The exact sequence is proprietary.

Images



Western blot analysis of Histone H2A.X (pS139) expression in HEK293T (A) whole cell lysates.



Immunohistochemical analysis of Histone H2A.X (pS139) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.