Rabbit Anti-H2AFX Polyclonal Antibody

CPB-796RH Rabbit(H2AFX)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-H2AFX Polyclonal Antibody
Antigen Description	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. 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.
specificity	The antibody detects endogenous level of H2AFX only when phosphorylated at serine 139.
Target	H2AFX
Immunogen	Peptide sequence around phosphorylation site of serine 139 (Q-A-S(p)-Q-E) derived from Human H2AFX.
Host	Rabbit
Species	Human
Cross Reactivity	Human
conjugation	N/A
Applications	IFA,WB

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/ 1year

ANTIGEN GENE INFORMATION

Gene Name	H2AFX H2A histone family, member X [Homo sapiens]
Official Symbol	H2AFX
Synonyms	H2AFX; H2A histone family, member X; H2AX; histone H2A.x; H2AX histone; H2A.X; H2A/X;
GeneID	3014
mRNA Refseq	NM_002105
Protein Refseq	NP_002096
MIM	601772
UniProt ID	P16104
Chromosome Location	11q23.3

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Pathway	ATM mediated phosphorylation of repair proteins, organism-specific biosystem; ATM mediated response to DNA double-strand break, organism-specific biosystem; Amyloids, organism-specific biosystem; Assembly of the RAD50-MRE11-NBS1 complex at DNA double-strand breaks, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Repair, organism-specific biosystem;
Function	DNA binding; enzyme binding; histone binding; protein binding;

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