Recombinant Human H2AX Histone Protein

Cat. No. H2AX-318H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length Recombinant Human H2AX Histone Protein is produced in E. coli.
Species	Human
Source	E.coli
Description	Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. The histone variant H2AX replaces conventional H2A in a subset of nucleosomes. H2AX plays a central role in DNA repair and chromosomal stability and is required for cell cycle progression arrest in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks.
Form	20 mM sodium phosphate pH 7.0, 0.3 M NaCl, 1mM EDTA, 0.5 mM PMSF and 1 mM DTT.
Purity	Purified using FPLC, >98% purity as determined by SDS-PAGE.
Notes	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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Stability	Guaranteed stable for 2 years from date of receipt when stored properly.
Storage	Store at -80 centigrade.
Concentration	1 g/µ
Full Length	Full L.
	SDS page of the Recombinant Histone H2A.X. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.

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