

Recombinant Human H2AFX, GST-tagged

Cat. No. H2AFX-13646H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human H2AFX protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-143a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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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;
Gene ID	3014
mRNA Refseq	NM_002105
Protein Refseq	NP_002096
MIM	601772
UniProt ID	P16104
Chromosome Location	11q23.3
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;