

Recombinant Human H2AFX protein, GST-tagged

Cat. No. H2AFX-68H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human H2AFX (1 a.a. - 96 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-96 a.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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.19 kDa
AA Sequence	MSGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLA AV LEYLTAEILELAGNAARDNK KTRIIPRHLQLAIRNDEELNK

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
GENE INFORMATION	
Gene Name	H2AFX H2A histone family, member X [Homo sapiens]
Official Symbol	H2AFX
Synonyms	H2AX; H2A.X; H2A/X; histone H2AX; H2AX histone; histone 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; Alcoholism, organism-specific biosystem

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Function	DNA binding; damaged DNA binding; enzyme binding
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