

Recombinant Human H2AFX Protein (Met1-Tyr143), His tagged

Cat. No. H2AFX-3068H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human H2AFX (Met1-Tyr143) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Tyr143
Description	H2AFX variants are associated with an increased risk of breast cancer (BC). H2AFX gene encodes a member of the H2A histone family which is central in the detection of and response to DNA double-strand breaks. In somatic cells, H2afx and Mdc1 are close functional partners in DNA repair and damage response. Due to the critical role of the H2AX histone variant in double-strand break repair, genetic variants in the H2AX gene, H2AFX, may influence cancer susceptibility. H2AFX encodes a histone variant involved in signaling sites of DNA damage and recruiting repair factors. Genetic variants in H2AFX may influence risk of non-Hodgkin lymphoma (NHL), a heterogeneous group of lymphoid tumors that are characterized by chromosomal translocations.
Molecular Mass	16.64 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	H2AFX H2A histone family, member X [Homo sapiens (human)]
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

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