Recombinant Human H2AFZ

Cat. No. H2AFZ-29178TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of Human H2A.Z with proprietary tag; predicted MW 40.19 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	128 amino acids
Description	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent member of the histone H2A family that is distinct from other members of the family. Studies in mice have shown that this particular histone is required for embryonic development and indicate that lack of functional histone H2A leads to embryonic lethality.
Molecular Weight	40.190kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRIHRHLKSR TTSHGRVGATAAVYS AAILEYLTAEVLELAGNASKDLKVK RITPRHLQLAIRGDEELDSLIKATIAGGGVIPHIH KSLIG KKGQQKTV
Sequence Similarities	Belongs to the histone H2A family.

GENE INFORMATION

Gene Name	H2AFZ H2A histone family, member Z [Homo sapiens]
Official Symbol	H2AFZ
Synonyms	H2AFZ; H2A histone family, member Z; H2AZ; histone H2A.Z; H2A.Z;
Gene ID	3015
mRNA Refseq	NM_002106
Protein Refseq	NP_002097
MIM	142763
Uniprot ID	P0C0S5
Chromosome Location	4q23

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Pathway	Amyloids, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Deposition of New CENPA-containing Nucleosomes at the Centromere, organism-specific biosystem; Meiosis, organism-specific biosystem;
Function	DNA binding;

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