diagenode
A Hologic Company

TECHNICAL DATASHEET

Recombinant Histone H2A.Z

Cat. No. C23010006
Source: E. coli
Lot #: 001
Size: 100 µg/ 100 µl
Concentration: 1 µg/µl
Specificity: Human

Purity: Purified using FPLC, >98% purity as determined by SDS-PAGE
Storage buffer: 20 mM sodium phosphate pH 7.0, 0.3 M NaCl, 1mM EDTA, 0.5 mM PMSF and 1 mM DTT.
Storage: Store at -80°C; guaranteed stable for 2 years from date of receipt when stored properly.
Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Description: Full length recombinant histone H2A.Z, produced in E. coli.

Protein 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 H2A.Z replaces conventional H2A in a subset of nucleosomes. H2AZ is involved in transcriptional regulation, antisilencing, silencing, and genome stability. It functions as a key regulator of chromatin function and plays an essential role during mammalian development.

Quality control

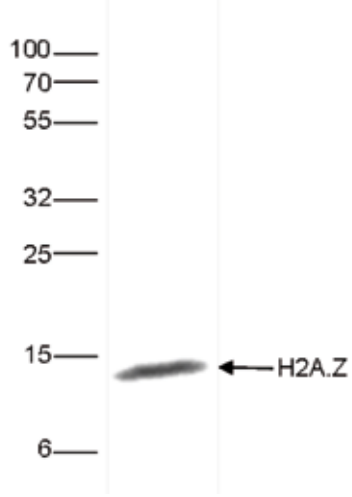

Figure 1.

SDS page of the Recombinant Histone H2A.Z. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.

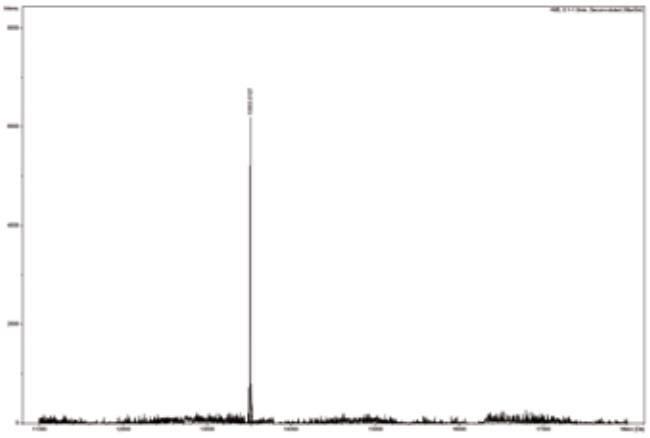

Figure 2.

ESi-TOF analysis of Recombinant H2A.Z.

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