diagenode
A Hologic Company

TECHNICAL DATASHEET

Recombinant H3.3 Core Histone

Cat. No. C23010017
Source: E. coli
Lot #: 001
Size: 25 µg/ 25 µl
Concentration: 1 µg/µl
Specificity: Human

Purity: Purified using FPLC, >98% purity as determined by SDS-PAGE
Storage buffer: 20 mM Tris-Cl pH 7.9, 2 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: Octamer containing 2 units of each full length recombinant histone H3.3, H4, H2A and H2B, 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 H3.3 replaces conventional H3.1 in a wide range of nucleosomes in active genes. H3.3 constitutes the predominant form of histone H3 in non-dividing cells.

Quality control

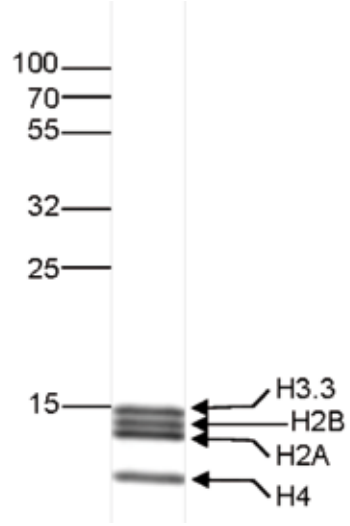

Figure 1.

SDS page of the Recombinant H3.3 Core Histone. The position of the proteins of interest is indicated on the right; the marker (in kDa) is shown on the left.

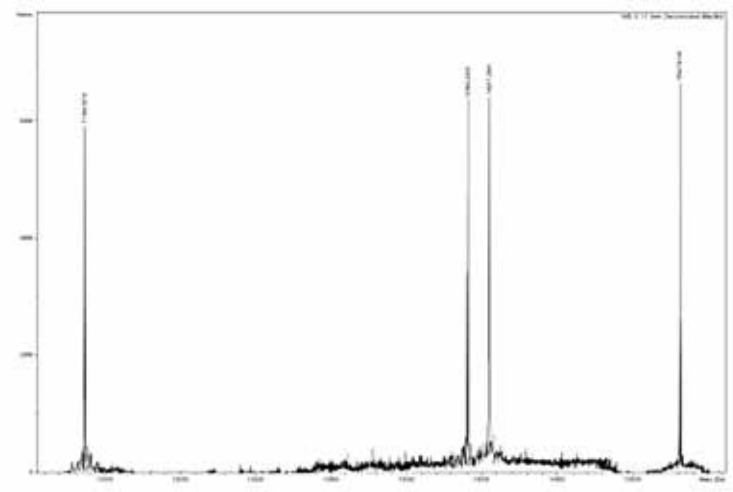

Figure 2.

ESi-TOF analysis of Recombinant Human H3.3 Core Histone.

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