Datasheet for ABIN2669496

Histone 3 Protein (H3) (Cys110Ala-Mutant)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Histone 3 (H3)
Protein Characteristics:	Cys110Ala-Mutant
Origin:	Xenopus laevis
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Positive Control (PC), Substrate (S)

Product Details

Characteristics:	Recombinant Xenopus laevis Histone H3 (C110A) is produced in E. coli and purified using FPLC. Protein concentration was determined using the molar extinction coefficient for Histone H3 and absorbance at 280nm. The recombinant histone is >98 % pure by SDS-PAGE. Recombinant Histone H3 C110A contains a substitution of cysteine to alanine at amino acid 110. The molecular weight of the protein is 15,239 Daltons.
Purification:	Purified using FPLC
Purity:	The recombinant histone is >98 % pure by SDS-PAGE.

Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 Products)
Background:	Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest

Target Details

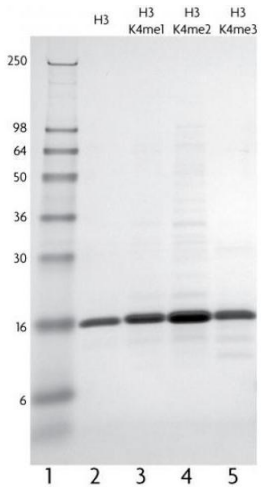
	subunit of chromatin and consists of 146 base pairs of DNA wrapped around an octamer of core histone proteins (two each of H2A, H2B, H3 and H4). Histone H1 is a linker protein, present at the interface between the nucleosome core and DNA entry/exit points.
Molecular Weight:	The molecular weight of the protein is 15,239 Daltons.

Application Details

Application Notes:	Recombinant histones are suitable for use as positive controls in the analysis of histone post-translational modifications, as substrates for histone modification enzymes, or to generate chromatin in vitro.
Restrictions:	For Research Use only

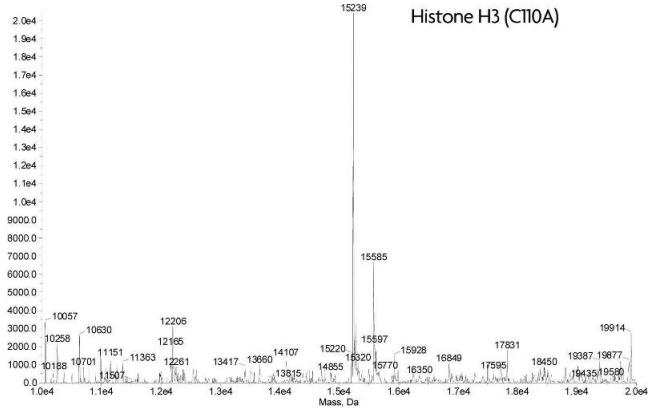
Handling

Format:	Lyophilized
Reconstitution:	Recombinant histones can be resuspended in water or any suitable buffer. We recommend a starting concentration of 1 mg/mL. To fully solubilize the histone we suggest resuspension in the buffer of choice at room temperature for 20-30 minutes with occasional pipetting. Addition of salt or Tris to the resuspension buffer may enhance histone solubility.
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-20 °C/-80 °C
Storage Comment:	Lyophilized proteins can be stored at -20°C or -80°C, preferably desiccated. Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.



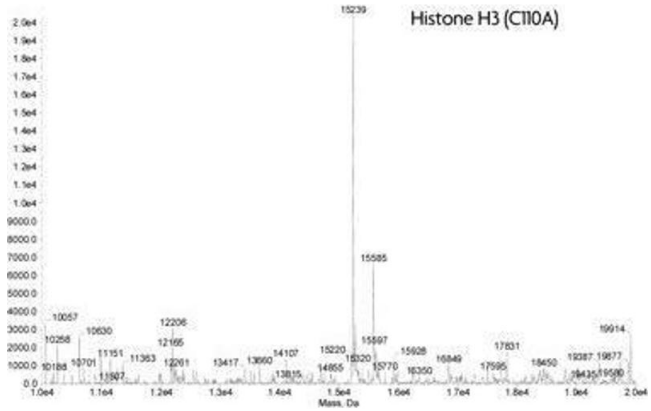
Western Blotting

Image 1.



Mass Spectrometry

Image 2.



Mass Spectrometry

Image 3.