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# Datasheet for ABIN2669514 Histone H4 Protein (3meLys20)

Image



## Overview

Quantity:	50 µg
Target:	Histone H4
Protein Characteristics:	3meLys20
Origin:	Xenopus laevis
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Positive Control (PC), Substrate (S)

## Product Details

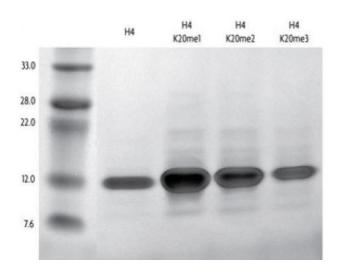
Characteristics:	Recombinant Xenopus laevis Histone H4 trimethyl Lys20 (H4K20me3) is produced in E. coli
	and purified using FPLC. Recombinant methylated histones are specifically methylated via a
	chemical alkylation reaction that introduces a methyl lysine analog (MLA). This specific
	chemical treatment enables the site and degree of methylation to be controlled precisely. Each
	methylation reaction is over 99 % complete, as verified by high-resolution ESI-TOF mass
	spectrometry. Protein concentration was determined using the molar extinction coefficient for
	Histone H4 and absorbance at 280nm. The recombinant histone is >98 % pure by SDS-PAGE.
	The molecular weight of the recombinant histone is 11,297 Daltons.
Purification:	Purified using FPLC
Purity:	The recombinant histone is >98 % pure by SDS-PAGE.
Target Details	

#### Target:

Histone H4

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Target Details	
Abstract:	Histone H4 Products
Background:	Histone H4 is one of the core components of the nucleosome. The nucleosome is the smallest
	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 histone,
	present at the interface between the nucleosome core and DNA entry/exit points.
Molecular Weight:	The molecular weight of the recombinant histone is 11,297 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.** Recombinant Histone H4 trimethyl Lys20 analyzed by SDS-PAGE gel. SDS-PAGE analysis of 1.5 µg Recombinant Histone H4 (lane 2), Recombinant Histone H4 monomethyl Lys20 (lane 3), Recombinant Histone H4 dimethyl Lys20 (lane 4), and Recombinant Histone H4 trimethyl Lys20 (lane 5). Molecular weight marker is in lane 1.

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