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## Datasheet for ABIN2669583 Histone H3.3 Protein (biotinylated, C-Term, full length)



Overview

Image

Quantity:	100 µg
Target:	Histone H3.3
Protein Characteristics:	C-Term, biotinylated, full length
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

### Product Details

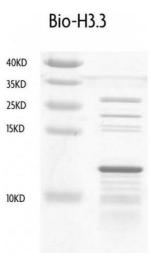
Characteristics:	Recombinant Histone H3.3 - biotinylated, Human, corresponds to the native histone sequence
	of mammalian histone H3 variant H3.3 and does not contain any amino acid substitutions or
	residue analogs. Histone H3.3 is known to be important for gene regulation. Recombinant
	Histone H3.3 - biotinylated, Human consists of the full-length sequence of human Histone H3.3
	variant (accession number NM_005324) and contains a C-terminal Biotin-tag. Recombinant
	Histone H3.3 - biotinylated, Human was generated in E. coli cells and has an observed
	molecular weight of 18 kDa.

#### Target Details

Target:	Histone H3.3
Abstract:	Histone H3.3 Products
Background:	Histone H3 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

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	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. Histone H3.1 and
	Histone H3.3 are the two main Histone H3 variants found in plants and animals. They are
	known to be important for gene regulation. Histone H3.1 and H3.3 have been shown to
	demonstrate unique genomic localization patterns thought to be associated with their specific
	functions in regulation of gene activity. Specifically, Histone H3.1 localization is found to
	coincide with genomic regions containing chromatin repressive marks (H3K9me3, H3K27me3
	and DNA methylation), whereas Histone H3.3 primarily colocalizes with marks associated with
	gene activation (H3K4me3, H2BK120ub1, and RNA pol II occupancy). Deposition of the Histone
	H3.1 variant into the nucleosome correlates with the canonical DNA synthesis-dependent
	deposition pathway, whereas Histone H3.3 primarily serves as the replacement Histone H3
	variant outside of S-phase, such as during gene transcription. Aberrant localization of these
	variants is also known to correlate with certain cancers.
Molecular Weight:	18 kDa
Application Details	
Application Notes:	Recombinant Histone H3.3 - biotinylated, Human is suitable for use in the study of enzyme
	kinetics, inhibitor screening, and selectivity profiling.
Restrictions:	For Research Use only
Handling	
Concentration:	0.4 μg/μL
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-80 °C
Storage Comment:	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to
	prevent degradation.



#### Western Blotting

**Image 1.** Recombinant Histone H3.3 - biotinylated protein gel. Recombinant Histone H3.3 - biotinylated run on an SDS-PAGE gel and stained with Coomassie blue.

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