

Product datasheet for PH314885

H2AC14 (NM_021066) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HIST1H2AJ MS Standard C13 and N15-labeled recombinant protein (NP_066544)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214885
Predicted MW:	13.9 kDa
Protein Sequence:	>RC214885 protein sequence Red =Cloning site Green =Tags(s) MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAADVLEYLTAEILELAGNA ARDNKKTRIIIPRHLQLAIRNDEELNKLKLVKVTIAQGGVLPNIQAVLLPKKTESHKTK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_066544
RefSeq Size:	439
RefSeq ORF:	384
Synonyms:	dj160A22.4; H2A/E; H2A/F; HIST1H2AJ
Locus ID:	8331
UniProt ID:	Q99878
Cytogenetics:	6p22.1



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Summary:

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Protein Pathways:

Systemic lupus erythematosus

Product images:

Coomassie blue staining of purified HIST1H2AJ protein (Cat# [TP314885]). The protein was produced from HEK293T cells transfected with HIST1H2AJ cDNA clone (Cat# [RC214885]) using MegaTran 2.0 (Cat# [TT210002]).