

## Product datasheet for PH310259

### H2AC6 (NM\_003512) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HIST1H2AC MS Standard C13 and N15-labeled recombinant protein (NP_003503)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210259
Predicted MW:	13.9 kDa
Protein Sequence:	>RC210259 representing NM_003512 Red=Cloning site Green=Tags(s)  MSGRGKQGKARAKAKSRSSRAGLQFPVGRVHLLRKGNYAERVGAGAPVYLAADVLEYLTAEILELAGNA ARDNKKTRIIIPRHLQLAIRNDEELNKLGRVTIAQGGVLPNIQAVLLPKKTESHKAKGK  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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:	<a href="#">NP_003503</a>
RefSeq Size:	546
RefSeq ORF:	390
Synonyms:	dj221C16.4; H2A/I; H2AFL; HIST1H2AC
Locus ID:	8334
UniProt ID:	<a href="#">Q93077</a> , <a href="#">A0A024R017</a>
Cytogenetics:	6p22.2



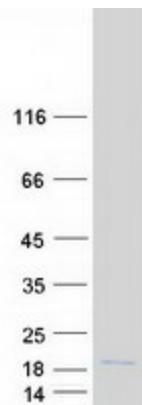
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**Summary:**

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 large histone gene cluster on chromosome 6. [provided by RefSeq, Aug 2015]

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**

Coomassie blue staining of purified HIST1H2AC protein (Cat# [TP310259]). The protein was produced from HEK293T cells transfected with HIST1H2AC cDNA clone (Cat# [RC210259]) using MegaTran 2.0 (Cat# [TT210002]).