

## Product datasheet for PH300984

### H2AW (NM\_033445) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HIST3H2A MS Standard C13 and N15-labeled recombinant protein (NP_254280)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200984
Predicted MW:	13.9 kDa
Protein Sequence:	>RC200984 representing NM_033445 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHLLRKGNYSERVAGAPVYLAADVLEYLTAEILELAGNA ARDNKKTRIIIPRHLQLAIRNDEELNKLGRVTIAQGGVLPNIQAVLLPKKTESHKAKGK  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
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_254280</a>
RefSeq Size:	496
RefSeq ORF:	390
Synonyms:	HIST3H2A
Locus ID:	92815
UniProt ID:	<a href="#">Q7L7L0</a>
Cytogenetics:	1q42.13



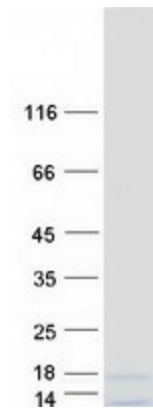
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**Summary:**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene contain a palindromic termination element. [provided by RefSeq, Aug 2015]

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**

Coomassie blue staining of purified HIST3H2A protein (Cat# [TP300984]). The protein was produced from HEK293T cells transfected with HIST3H2A cDNA clone (Cat# [RC200984]) using MegaTran 2.0 (Cat# [TT210002]).