

## Product datasheet for PH324252

### H2BC14 (NM\_003521) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HIST1H2BM MS Standard C13 and N15-labeled recombinant protein (NP_003512)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224252
Predicted MW:	14 kDa
Protein Sequence:	>RC224252 protein sequence Red=Cloning site Green=Tags(s)  MPEPVKSAPVPKKGSKKAINKAQKKGKKRKRSRKESYSVYVYKVLKQVHPDTGISSKAMGIMNSFVNDI FERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVTKYTSSK  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:	<a href="#">NP_003512</a>
RefSeq Size:	446
RefSeq ORF:	378
Synonyms:	dj160A22.3; H2B/e; H2BFE; HIST1H2BM
Locus ID:	8342
UniProt ID:	<a href="#">Q99879</a>
Cytogenetics:	6p22.1



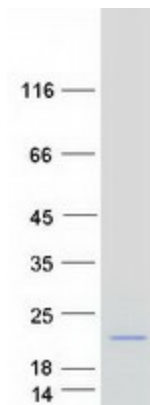
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**Summary:**

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 H2B 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 HIST1H2BM protein (Cat# [TP324252]). The protein was produced from HEK293T cells transfected with HIST1H2BM cDNA clone (Cat# [RC224252]) using MegaTran 2.0 (Cat# [TT210002]).