

## Product datasheet for PH316020

### Histone H2A Bbd (H2AFB1) (NM\_001017990) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | H2AFB1 MS Standard C13 and N15-labeled recombinant protein (NP_001017990)  |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC216020   |
| Predicted MW:                         | 12.7 kDa   |
| Protein Sequence:                     | >RC216020 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MPRRRRRRGSSGAGGRGRTCSRTVRAELSFVSQVERSLREGHYAQLSRTAPVYLAAVIEYLTAKVLEL<br>AGNEAQNSGERNITPLLLDMVVHNDRLSTLFNTTISQVAPGED<br><br>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_001017990</a>   |
| RefSeq Size:                          | 517  |
| RefSeq ORF:                           | 345  |
| Synonyms:                             | H2A.B; H2A.Bbd; H2AFB1   |
| Locus ID:                             | 474382   |
| UniProt ID:                           | <a href="#">P0C5Y9</a>   |
| Cytogenetics:                         | Xq28   |



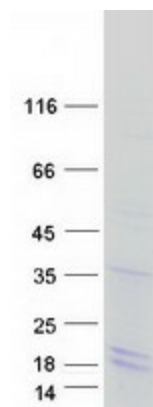
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**Summary:**

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 encodes a replication-independent histone that is a member of the histone H2A family. This gene is part of a region that is repeated three times on chromosome X, once in intron 22 of the F8 gene and twice closer to the Xq telomere. This record represents the most centromeric copy which is in intron 22 of the F8 gene. [provided by RefSeq, Oct 2015]

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**

Coomassie blue staining of purified H2AFB1 protein (Cat# [TP316020]). The protein was produced from HEK293T cells transfected with H2AFB1 cDNA clone (Cat# [RC216020]) using MegaTran 2.0 (Cat# [TT210002]).