

# **Product datasheet for PH323551**

#### OriGene Technologies, Inc.

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### Histone H2A Bbd (H2AFB2) (NM 001017991) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** H2AFB2 MS Standard C13 and N15-labeled recombinant protein (NP 001017991)

Species: Human **HEK293 Expression Host:** 

**Expression cDNA Clone** 

or AA Sequence:

RC223551

Predicted MW: 12.7 kDa

>RC223551 protein sequence **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MPRRRRRGSSGAGGRGRTCSRTVRAELSFSVSQVERSLREGHYAQRLSRTAPVYLAAVIEYLTAKVLEL

AGNEAQNSGERNITPLLLDMVVHNDRLLSTLFNTTTISQVAPGED

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.

Stable for 3 months from receipt of products under proper storage and handling conditions. Stability:

NP 001017991 RefSeq:

RefSeg Size: 594 RefSeq ORF: 345

Synonyms: H2A.Bbd; H2AB3; H2AFB2

Locus ID: 474381 **UniProt ID:** P0C5Z0 Xq28 Cytogenetics:





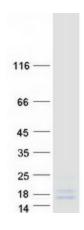
#### **Summary:**

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 middle copy. [provided by RefSeq, Oct 2015]

**Protein Pathways:** 

Systemic lupus erythematosus

## **Product images:**



Coomassie blue staining of purified H2AFB2 protein (Cat# [TP323551]). The protein was produced from HEK293T cells transfected with H2AFB2 cDNA clone (Cat# [RC223551]) using MegaTran 2.0 (Cat# [TT210002]).