

H2AFB1 Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15618

Product Information

Application	WB
Primary Accession	P0C5Y9
Other Accession	NM_001017990 , NP_001017990
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12697

Additional Information

Gene ID	474382
Alias Symbol	H2A.Bbd
Other Names	Histone H2A-Bbd type 1, H2A Barr body-deficient, H2A.Bbd, H2AFB1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-H2AFB1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	H2AFB1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	H2AB1 (HGNC:22516)
Function	Atypical histone H2A which can replace conventional H2A in some nucleosomes and is associated with active transcription and mRNA processing (PubMed: 22795134). Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability (PubMed: 15257289 , PubMed: 16287874 , PubMed: 16957777 , PubMed: 17591702 , PubMed: 17726088 , PubMed: 18329190 , PubMed: 22795134). Nucleosomes containing this histone are less rigid and organize less DNA than canonical nucleosomes in vivo (PubMed: 15257289 , PubMed: 16957777 , PubMed: 17591702 , PubMed: 24336483). They are enriched in actively

transcribed genes and associate with the elongating form of RNA polymerase (PubMed:[17591702](#), PubMed:[24753410](#)). They associate with spliceosome components and are required for mRNA splicing (PubMed:[22795134](#)).

Cellular Location

Nucleus. Chromosome Note=Associated with the active X chromosome and with autosomes, while it is absent from the inactive X chromosome and excluded from Barr bodies.

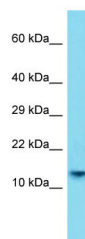
Tissue Location

Present in mature sperm.

References

Naylor J.A.,et al.Hum. Mol. Genet. 4:1217-1224(1995).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ross M.T.,et al.Nature 434:325-337(2005).
Bao Y.,et al.EMBO J. 23:3314-3324(2004).
Okuwaki M.,et al.Mol. Cell. Biol. 25:10639-10651(2005).

Images



Host: Rabbit

Target Name: H2AFB1

Sample Tissue: A549 Whole cell lysate

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Antibody Dilution: 1.0µg/mlH2AFB1 is supported by
BioGPS gene expression data to be expressed in A549

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.