

**HIST1H2BN Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13115A**

### Specification

#### HIST1H2BN Antibody (N-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	<a href="#">Q99877</a>
Other Accession	<a href="#">Q32L48</a> , <a href="#">Q64475</a> , <a href="#">P33778</a> , <a href="#">NP_003511.1</a>
Reactivity	Human
Predicted	Mouse, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	13922
Antigen Region	1-30

#### HIST1H2BN Antibody (N-term) - Additional Information

##### Gene ID 8341

##### Other Names

Histone H2B type 1-N, Histone H2Bd, H2B/d, HIST1H2BN, H2BFD

##### Target/Specificity

This HIST1H2BN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HIST1H2BN.

##### Dilution

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

HIST1H2BN Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### HIST1H2BN Antibody (N-term) - Protein Information

Name H2BC15 ([HGNC:4749](#))

**Function** Core component of nucleosome. 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. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

#### Cellular Location

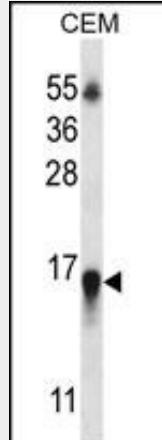
Nucleus. Chromosome.

#### HIST1H2BN Antibody (N-term) - Protocols

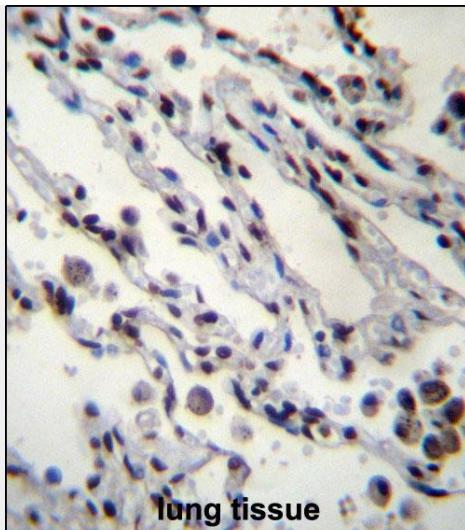
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### HIST1H2BN Antibody (N-term) - Images



HIST1H2BN Antibody (N-term) (Cat. #AP13115a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the HIST1H2BN antibody detected the HIST1H2BN protein (arrow).



HIST1H2BN Antibody (N-term) (Cat. #AP13115a) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of HIST1H2BN Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

### **HIST1H2BN Antibody (N-term) - Background**

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 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.

### **HIST1H2BN Antibody (N-term) - References**

Kim, S.C., et al. Mol. Cell 23(4):607-618(2006)  
Beck, H.C., et al. Mol. Cell Proteomics 5(7):1314-1325(2006)  
Pavri, R., et al. Cell 125(4):703-717(2006)  
Zhu, B., et al. Mol. Cell 20(4):601-611(2005)  
Golebiowski, F., et al. Mol. Cell. Biochem. 279 (1-2), 133-139 (2005) :