

HIST1H2BN Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13115A

Specification

HIST1H2BN Antibody (N-term) - Product Information

Application WB, IHC-P,E
Primary Accession Q99877

Other Accession <u>Q32L48</u>, <u>Q64475</u>, <u>P33778</u>, <u>NP 003511.1</u>

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

WB~~1:1000 IHC-P~~1:10~50

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 (<u>HGNC:4749</u>)





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.

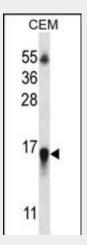
Cellular LocationNucleus, Chromosome.

HIST1H2BN Antibody (N-term) - Protocols

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

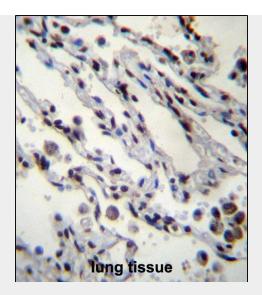
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

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 Antibdy (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 Antibdy (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):