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HIST1H1B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5231a

Product Information

Application	FC, WB, E
Primary Accession	P16401
Other Accession	P02251
Reactivity	Human
Predicted	Rabbit, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30034
Calculated MW	22580
Antigen Region	33-60

Additional Information

Gene ID	3009
Other Names	Histone H15, Histone H1a, Histone H1b, Histone H1s-3, HIST1H1B, H1F5
Target/Specificity	This HIST1H1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-60 amino acids from the N-terminal region of human HIST1H1B.
Dilution	FC~~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	HIST1H1B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	H1-5 (HGNC:4719)
Function	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (By similarity). Histones H1 are necessary for the condensation of nucleosome chains into

	higher-order structured fibers and promote formation of the H3K27me3 mark by the PRC2/EED-EZH2 complex (PubMed:40516528). Also acts as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation (By similarity).
Cellular Location	Nucleus. Chromosome. Note=Enriched at the nuclear periphery and colocalizes with compacted DNA (heterochromatin) (PubMed:15911621, PubMed:38530350). Also associates with actively transcribed chromatin (PubMed:10997781).
Tissue Location	Ubiquitous. Expressed in the majority of the cell lines tested and in testis.

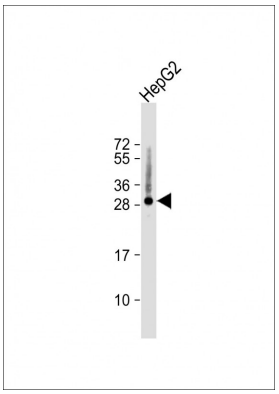
Background

Histones are basic nuclear proteins responsible for 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 H1 family.

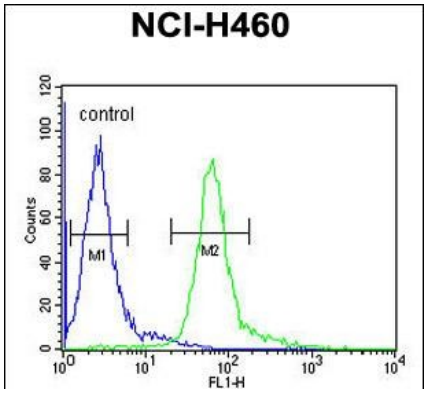
References

Happel, N., et al. J. Mol. Biol. 386(2):339-350(2009)
Trojer, P., et al. Cell 129(5):915-928(2007)
Wisniewski, J.R., et al. Mol. Cell Proteomics 6(1):72-87(2007)

Images



Anti-HIST1H1B Antibody (N-term) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



HIST1H1B Antibody (N-term) (Cat. #AP5231a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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