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HIST1H2AB Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17445a

Product Information

Application	WB, E
Primary Accession	P04908
Other Accession	Q6GM86, P27661, P16104, Q7ZUY3, A9UMV8, Q8R1M2, Q4R3X5, Q9BTM1, P70082, Q3ZBX9, P02263, Q4FZT6, Q8BFU2, Q7L7L0, P35062, P06898, Q64523, Q16777, A1A4R1, Q64522, Q8IUE6, P0CC09, Q6GSS7, Q6FI13, P06897, P02262, P22752, P0C0S8, P0C0S9, Q8CGP7, Q99878, Q8CGP6
Reactivity	Human
Predicted	Rat, Mouse, Bovine, Xenopus, Chicken, Monkey, Zebrafish, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37163
Calculated MW	14135
Antigen Region	11-38

Additional Information

Gene ID	3012;8335
Other Names	Histone H2A type 1-B/E, Histone H2A2, Histone H2A/a, Histone H2A/m, HIST1H2AB, H2AFM
Target/Specificity	This HIST1H2AB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-38 amino acids from the N-terminal region of human HIST1H2AB.
Dilution	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	HIST1H2AB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	H2AC4 (HGNC:4734)

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.

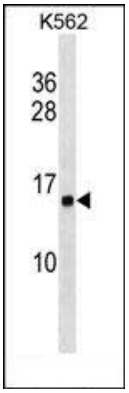
Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 is intronless and encodes a member of the histone H2A family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Bergink, S., et al. Genes Dev. 20(10):1343-1352(2006)
Cao, R., et al. Mol. Cell 20(6):845-854(2005)
Hagiwara, T., et al. Biochemistry 44(15):5827-5834(2005)
Andersen, J.S., et al. Nature 433(7021):77-83(2005)

Images



HIST1H2AB Antibody (N-term) (Cat. #AP17445a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the HIST1H2AB antibody detected the HIST1H2AB protein (arrow).

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