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HIST3H3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8920a

Product Information

Application	WB, E
Primary Accession	Q16695
Other Accession	P61830, P02299, P08898, P02302, P02301, Q6NXT2, A5PK61, Q6PI79, P84245, P84246, Q71LE2, P84244, P84243, P84249, Q6PI20, P84247, Q5E9F8, Q9U281, Q10453, P84233, P84228, Q71DI3, Q4QRF4, P84229, P84227, Q6LED0, P68433, P68431, P68432
Reactivity	Human
Predicted	Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Yeast, Xenopus, Bovine, C.Elegans, Drosophila, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23552
Calculated MW	15508
Antigen Region	1-30

Additional Information

Gene ID	8290
Other Names	Histone H31t, H3/t, H3t, H3/g, HIST3H3, H3FT
Target/Specificity	This HIST3H3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HIST3H3.
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	HIST3H3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	H3-4 (HGNC:4778)

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.
Tissue Location	Expressed in testicular cells.

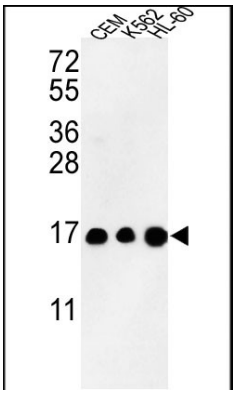
Background

HIST3H3 is are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element.

References

Rampakakis,E.,et.al., J. Cell. Biochem. 108 (2), 400-407 (2009)

Images



Western blot analysis of HIST3H3 Antibody (N-term) (Cat. #AP8920a) in CEM, K562, HL-60 cell line lysates (35ug/lane). HIST3H3 (arrow) was detected using the purified Pab.

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