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HIST1H2BC/HIST1H2BF Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12846a

Product Information

Application	WB, E
Primary Accession	P62807
Other Accession	P57053, Q9PSW9, P0C1H5, P0C1H4, Q6PC60, Q16778, P0C1H3, P62808, Q8CGP1, Q2PFX4, O60814, Q2M2T1, P06899, Q64478, P10853, Q6ZWY9, P06900, P02281, NP_003517.2, NP_003509.1, NP_003514.2, NP_003513.1, NP_003516.1
Reactivity	Human
Predicted	Xenopus, Mouse, Bovine, Monkey, Chicken, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32591
Calculated MW	13906
Antigen Region	1-30

Additional Information

Gene ID	3017;8339;8343;8344;8346;8347
Other Names	Histone H2B type 1-C/E/F/G/I, Histone H2B1 A, Histone H2Ba, H2B/a, Histone H2Bg, H2B/g, Histone H2Bh, H2B/h, Histone H2Bk, H2B/k, Histone H2Bl, H2B/l, HIST1H2BC, H2BFL
Target/Specificity	This HIST1H2BC/HIST1H2BF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HIST1H2BC/HIST1H2BF.
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	HIST1H2BC/HIST1H2BF Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	H2BC4 (HGNC:4757)
Synonyms	H2BFL, HIST1H2BC
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.

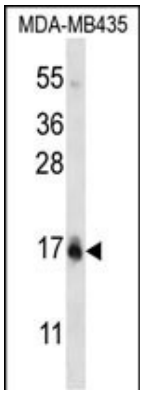
Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. 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 H2B 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

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)
Bonenfant, D., et al. Mol. Cell Proteomics 5(3):541-552(2006)
Siuti, N., et al. J. Proteome Res. 5(2):233-239(2006)

Images



HIST1H2BC/HIST1H2BF Antibody (N-term) (Cat. #AP12846a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the HIST1H2BC/HIST1H2BF antibody detected the HIST1H2BC/HIST1H2BF protein (arrow).