

Immunotag™ Histone H2B Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5501
Product Description	Immunotag™ Histone H2B Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be returned and is not eligible for return.
Target Protein	Histone H2B
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from the Internal region of human Histone H2B.
Specificity	Histone H2B Polyclonal Antibody detects endogenous levels of Histone H2B protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific protein A-Sepharose.
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	HIST1H2BC/HIST1H2BE/HIST1H2BF/HIST1H2BG/HIST1H2BI/HIST1H2BD/HIST1H2BH/HIST1H2BK/HIST1H2BL/HIST1H2BM/HIST1H2BN/HIST1H2BO/HIST1H2BP/HIST1H2BQ/HIST1H2BR/HIST1H2BS/HIST1H2BT/HIST1H2BU/HIST1H2BV/HIST1H2BW/HIST1H2BX/HIST1H2BY/HIST1H2BZ
Accession No.	P33778/P62807/P58876/Q93079/P06899/O60814/Q99880/Q99879/Q99877/P23527
Alternate Names	HIST1H2BB; H2BFF; Histone H2B type 1-B; Histone H2B.1; Histone H2B.f; H2B/f; HIST1H2BC; H2BFL; HIST1H2BD; H2BFD; HIST1H2BE; H2BEF; HIST1H2BF; H2BFG; HIST1H2BG; H2BFA; HIST1H2BI; H2BFI; HIST1H2BJ; H2BFJ; HIST1H2BK; H2BKL; HIST1H2BL; H2BLF; HIST1H2BM; H2BMF; HIST1H2BN; H2BNF; HIST1H2BO; H2BOF; HIST1H2BP; H2BPF; HIST1H2BQ; H2BQF; HIST1H2BR; H2BRF; HIST1H2BS; H2BSF; HIST1H2BT; H2BTF; HIST1H2BU; H2BUF; HIST1H2BV; H2BVF; HIST1H2BW; H2BWF; HIST1H2BX; H2BXF; HIST1H2BY; H2BYF; HIST1H2BZ; H2BZF

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Description	histone cluster 1 H2B family member b(HIST1H2BB) Homo sapiens Histones are basic nuclear proteins structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted by the linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-dependent histone that is a member of the histone H2B family. Transcripts from this gene lack a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 12.
Cell Pathway/ Category	Systemic lupus erythematosus,
Protein Expression	Epithelium,
Subcellular Localization	nuclear chromosome, telomeric region,nucleosome,nuclear nucleosome,nucleus,nucleoplasm,cytoplasm
Protein Function	function:Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting accessibility of the DNA to the transcription machinery, which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA replication, and DNA stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones including acetylation, methylation, phosphorylation, and ubiquitination.,PTM:Monoubiquitination of Lys-121 by the RNF20/40 complex gives a specific tag for epigenetic regulation and is a prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation. It also functions cooperatively with the FACT complex to facilitate RNA polymerase II.,PTM:Phosphorylated on Ser-15 by STK4/MST1 during apoptosis; which facilitates apoptotic cell death.,PTM:Phosphorylated on Ser-15 in response to DNA double strand breaks (DSBs), and in correlation with some DNA repair processes.,similarity:Belongs to the histone H2B family.,subunit:The nucleosome is a complex of DNA and histone proteins. Each nucleosome is composed of two molecules of each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The DNA is wrapped twice around the histone core.
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.