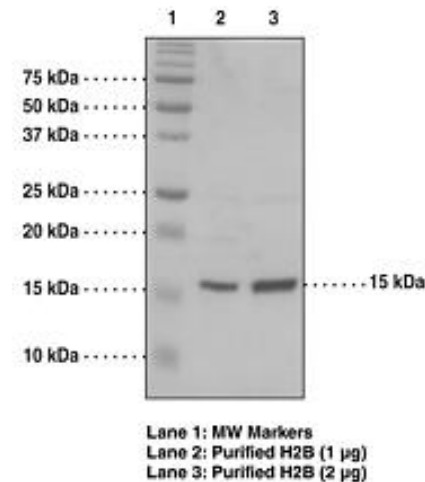


## Histone H2B (1-123 aa), *Xenopus* recombinant

CATALOG #:	7669-100	100 µg
	7669-250	250 µg
ALTERNATE NAMES:	H2B, Histone H2B type 1-A, HIST1H2BA, TSH2B	
SOURCE:	E. Coli	
PURITY:	≥90% by SDS - PAGE	
MOL. WEIGHT:	13.7 kDa (1-123 aa)	
FORMULATION:	Lyophilized powder. Recommended buffer is 50 mM sodium phosphate, pH 7.2, containing 300 mM sodium chloride, 1 mM DTT, 1 mM EDTA and 20% glycerol	
STORAGE CONDITIONS:	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for ≥ 6 months.	

### DESCRIPTION:

H2A is a core component of nucleosome. A nucleosome is the basic repeating unit of chromatin in which 146 base pairs of DNA wrap twice around an octamer of histones. The octamer is composed of two of each histone H2A, H2B, H3, and H4. DNA accessibility is regulated via a complex set of post-translational modifications of these histones, also called histone code, and nucleosome remodeling. Histones H2A and H2B form a dimer. Histones H3 and H4 form a tetramer. The combination of two H2A/H2B dimers and one H3/H4 tetramer create the nucleosome core. Histone H2B undergoes many modifications which include acetylation, phosphorylation, ubiquitylation, sumoylation, and biotinylation that are important for regulation of gene transcription. 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.



Xenopus Recombinant H2B

### RELATED PRODUCTS:

- Histone Protein (**Cat. No. 1136-10**)
- Histone H2A (1-129 aa), *Xenopus* recombinant (**Cat. No. 7668-100, -250**)
- Histone H3 (1-136 aa), Human recombinant (**Cat. No. 7670-100, -250**)
- Histone H4 (1-103 aa), Human recombinant (**Cat. No. 7671-100, -250**)
- Histone H2A Antibody (**Cat. No. 3621-100**)
- Histone H2AX Antibody (**Cat. No. 3761-100**)
- Histone H2B Antibody (**Cat. No. 3622-100**)
- Histone H3 Antibody (**Cat. No. 3623-100**)
- Histone H3 Peptide-Biotin Conjugate (**Cat. No. 2233-01, -1**)
- Histone H4 Antibody (**Cat. No. 3624-100**)
- Histone Methyltransferase (SUV39H1) Antibody (**Cat. No. 3942-100**)
- Acetyl-Histone H2A Antibody (**Cat. No. 3653-100**)
- Acetyl-Histone H2B Antibody (**Cat. No. 3654-100**)
- Acetyl-Histone H4 Antibody (**Cat. No. 3656-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**