

## Histone H2A (1-129 aa), *Xenopus* recombinant

**CATALOG #:** 7668-100 100 µg  
7668-250 250 µg

**ALTERNATE NAMES:** H2A, H2a 615, H2A GL101, H2A histone family member A, H2A histone family member B

**SOURCE:** E. Coli

**PURITY:** ≥95% by SDS - PAGE

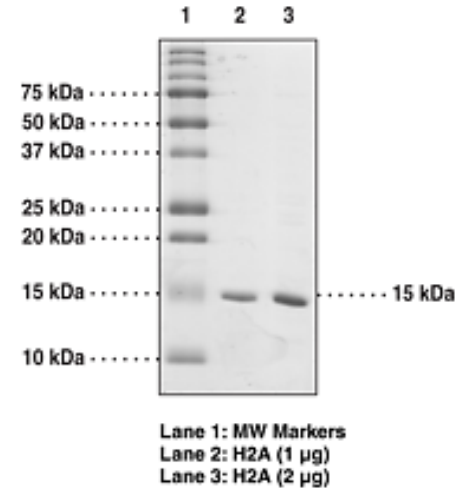
**MOL. WEIGHT:** 13.9 kDa (1-129 aa)

**FORMULATION:** Lyophilized powder. Recommended buffer is 50 mM sodium phosphate, pH 7.2, containing 100 mM sodium chloride, 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 H3 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 H2A

**RELATED PRODUCTS:**

- Histone Protein (**Cat. No. 1136-10**)
- Histone H2B (1-123 aa), *Xenopus* recombinant (**Cat. No. 7669-100, -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.**