

**H2AB2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4766c****Specification**

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**H2AB2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [POC5Z0](#)**H2AB2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 474381;83740**Other Names**

Histone H2A-Bbd type 2/3, H2A Barr body-deficient, H2ABbd, H2AFB2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**H2AB2 Antibody (Center) Blocking Peptide - Protein Information****Name** H2AB2 ([HGNC:18298](#))**Function**

Atypical histone H2A which can replace conventional H2A in some nucleosomes and is associated with active transcription and mRNA processing. 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. Nucleosomes containing this histone are less rigid and organize less DNA than canonical nucleosomes in vivo. They are enriched in actively transcribed genes and associate with the elongating form of RNA polymerase. They associate with spliceosome components and are required for mRNA splicing. May participate in spermatogenesis.

**Cellular Location**

Nucleus. Chromosome Note=Associated with the active X chromosome and with autosomes, while it is absent from the inactive X chromosome and excluded from Barr bodies.

**Tissue Location**

Present in mature sperm.

## **H2AB2 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **H2AB2 Antibody (Center) Blocking Peptide - Images**

## **H2AB2 Antibody (Center) Blocking Peptide - Background**

H2AB2 is basic nuclear protein that is 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. H2AB2 encodes a member of the histone H2A family. This gene is part of a region that is repeated three times on chromosome X, once in intron 22 of the F8 gene and twice closer to the Xq telomere. This record represents the middle copy.

## **H2AB2 Antibody (Center) Blocking Peptide - References**

Okuwaki, M., et al. Mol. Cell. Biol. 25(23):10639-10651(2005) Ross, M.T., et al. Nature 434(7031):325-337(2005) Bao, Y., et al. EMBO J. 23(16):3314-3324(2004)