

HIST1H2BA Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18457a**Specification**

HIST1H2BA Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96A08](#)**HIST1H2BA Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 255626**Other Names**

Histone H2B type 1-A, Histone H2B, testis, TSH2B1, Testis-specific histone H2B, HIST1H2BA, TSH2B

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.

HIST1H2BA Antibody (N-term) Blocking Peptide - Protein Information**Name** H2BC1 ([HGNC:18730](#))**Function**

Variant histone specifically required to direct the transformation of dissociating nucleosomes to protamine in male germ cells (By similarity). Entirely replaces classical histone H2B prior nucleosome to protamine transition and probably acts as a nucleosome dissociating factor that creates a more dynamic chromatin, facilitating the large-scale exchange of histones (By similarity). Core component of nucleosome (By similarity). Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template (By similarity). Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability (By similarity). DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling (By similarity). Also found in fat cells, its function and the presence of post-translational modifications specific to such cells are still unclear (PubMed:21249133).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P70696}. Chromosome {ECO:0000250|UniProtKB:P70696}

Tissue Location

Mainly expressed in testis, and the corresponding protein is also present in mature sperm (at protein level). Also found in some fat cells.

HIST1H2BA Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HIST1H2BA Antibody (N-term) Blocking Peptide - Images

HIST1H2BA Antibody (N-term) Blocking Peptide - 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 testis/sperm-specific member of the histone H2B family. Transcripts from this gene contain a palindromic termination element. [provided by RefSeq].

HIST1H2BA Antibody (N-term) Blocking Peptide - References

Kim, S.C., et al. Mol. Cell 23(4):607-618(2006) Pavri, R., et al. Cell 125(4):703-717(2006) Zhu, B., et al. Mol. Cell 20(4):601-611(2005) Golebiowski, F., et al. Mol. Cell. Biochem. 279 (1-2), 133-139 (2005) :Li, A., et al. Biochemistry 44(7):2529-2535(2005)