10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

# HIST1H2BB/HIST1H2BE Antibody (N-term) Blocking Peptide

**Synthetic peptide**
**Catalog # BP16190a**

## Specification

### HIST1H2BB/HIST1H2BE Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P33778

### HIST1H2BB/HIST1H2BE Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID** 3018

**Other Names**
Histone H2B type 1-B, Histone H2B1, Histone H2Bf, H2B/f, HIST1H2BB, H2BFF

**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.

### HIST1H2BB/HIST1H2BE Antibody (N-term) Blocking Peptide - Protein Information

**Name** H2BC3 (HGNC:4751)

**Function**
Core component of nucleosome. 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. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and

### HIST1H2BB/HIST1H2BE Antibody (N-term) Blocking Peptide - Background

Histones are basic nuclear proteins that are responsiblefor the nucleosome structure of the chromosomal fiber ineukaryotes. Nucleosomes consist of approximately 146 bp of DNAwrapped around a histone octamer composed of pairs of each of thefour core histones (H2A, H2B, H3, and H4). The chromatin fiber isfurther compacted through the interaction of a linker histone, H1,with the DNA between the nucleosomes to form higher order chromatinstructures. This gene is intronless and encodes a member of thehistone H2B family. Transcripts from this gene lack polyA tails;instead, they contain a palindromic termination element. This geneis found in the large histone gene cluster on chromosome6p22-p21.3.

### HIST1H2BB/HIST1H2BE 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)Bonenfant, D., et al. Mol. Cell Proteomics 5(3):541-552(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) :

nucleosome remodeling.

**Cellular Location**
Nucleus. Chromosome.

## HIST1H2BB/HIST1H2BE Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides