

**H3f3b Blocking Peptide (C-Term)**  
**Synthetic peptide**  
**Catalog # BP21780b****Specification**

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**H3f3b Blocking Peptide (C-Term) - Product Information**Primary Accession [P84244](#)**H3f3b Blocking Peptide (C-Term) - Additional Information****Gene ID** 15078;15081**Other Names**

Histone H33, H3f3a, H33a

**Target/Specificity**

The synthetic peptide sequence is selected from aa 123-136 of HUMAN H3f3a

**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.

**H3f3b Blocking Peptide (C-Term) - Protein Information****Name** H3-3a {ECO:0000250|UniProtKB:P84243}**Function**

Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. 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 nucleosome remodeling.

**Cellular Location**

Nucleus. Chromosome.

### **H3f3b Blocking Peptide (C-Term) - Protocols**

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

- [Blocking Peptides](#)

### **H3f3b Blocking Peptide (C-Term) - Images**

### **H3f3b Blocking Peptide (C-Term) - Background**

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### **H3f3b Blocking Peptide (C-Term) - References**

Hraba-Renevey S., et al. Nucleic Acids Res. 17:2449-2461(1989).  
Bramlage B., et al. Differentiation 62:13-20(1997).  
Lopez-Alanon D.M., et al. DNA Cell Biol. 16:639-644(1997).  
Carninci P., et al. Science 309:1559-1563(2005).  
Mancini P., et al. J. Mol. Evol. 59:458-463(2004).