

**CBX7 Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP21163a****Specification**

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**CBX7 Blocking Peptide (C-term) - Product Information**Primary Accession [O95931](#)**CBX7 Blocking Peptide (C-term) - Additional Information****Gene ID** 23492**Other Names**

Chromobox protein homolog 7, CBX7

**Target/Specificity**

The synthetic peptide sequence is selected from aa 168-181 of HUMAN CBX7

**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.

**CBX7 Blocking Peptide (C-term) - Protein Information****Name** CBX7**Function**

Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. Promotes histone H3 trimethylation at 'Lys-9' (H3K9me3). Binds to trimethylated lysine residues in histones, and possibly also other proteins. Regulator of cellular lifespan by maintaining the repression of CDKN2A, but not by inducing telomerase activity.

**Cellular Location**

Nucleus

**CBX7 Blocking Peptide (C-term) - Protocols**

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

- [Blocking Peptides](#)

#### **CBX7 Blocking Peptide (C-term) - Images**

#### **CBX7 Blocking Peptide (C-term) - Background**

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#### **CBX7 Blocking Peptide (C-term) - References**

Dunham I., et al. Nature 402:489-495(1999).  
Gil J., et al. Nat. Cell Biol. 6:67-72(2004).  
Bezsonova I., et al. Biochemistry 48:10542-10548(2009).  
Maertens G.N., et al. PLoS ONE 4:E6380-E6380(2009).  
Li Q., et al. PLoS ONE 5:E13732-E13732(2010).