

**PBX1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7285a****Specification****PBX1 Antibody (N-term) Blocking Peptide -  
Product Information**Primary Accession [P40424](#)**PBX1 Antibody (N-term) Blocking Peptide -  
Additional Information****Gene ID** 5087**Other Names**Pre-B-cell leukemia transcription factor 1,  
Homeobox protein PBX1, Homeobox protein  
PRL, PBX1, PRL**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7285a](/product/products/AP7285a) was selected from the N-term region of human PBX1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**PBX1 Antibody (N-term) Blocking Peptide -  
Protein Information****Name** PBX1**PBX1 Antibody (N-term) Blocking Peptide  
- Background**

PBX1 binds the sequence 5'-ATCAATCAA-3'. It acts as a transcriptional activator of PF4 in complex with MEIS1, and is converted into a potent transcriptional activator by the (1;19) translocation. It may have a role in steroidogenesis and, subsequently, sexual development and differentiation.

**PBX1 Antibody (N-term) Blocking Peptide  
- References**

Duesing, K., BMC Med. Genet. 9, 14  
(2008) Chung, E.Y., Immunity 27 (6), 952-964  
(2007) Qiu, Y., Am. J. Pathol. 170 (1), 152-159  
(2007)

## Synonyms PRL

### Function

Transcription factor which binds the DNA sequence 5'- TGATTGAT-3' as part of a heterodimer with HOX proteins such as HOXA1, HOXA5, HOXB7 and HOXB8 (PubMed:<a href="http://www.uniprot.org/citations/9191052" target="\_blank">9191052</a>). Binds to the DNA sequence 5'- TGATTGAC-3' in complex with a nuclear factor which is not a class I HOX protein (PubMed:<a href="http://www.uniprot.org/citations/9191052" target="\_blank">9191052</a>). Has also been shown to bind the DNA sequence 5'-ATCAATCAA-3' cooperatively with HOXA5, HOXB7, HOXB8, HOXC8 and HOXD4 (PubMed:<a href="http://www.uniprot.org/citations/8327485" target="\_blank">8327485</a>, PubMed:<a href="http://www.uniprot.org/citations/7791786" target="\_blank">7791786</a>). Acts as a transcriptional activator of PF4 in complex with MEIS1 (PubMed:<a href="http://www.uniprot.org/citations/12609849" target="\_blank">12609849</a>). Also activates transcription of SOX3 in complex with MEIS1 by binding to the 5'-TGATTGAC-3' consensus sequence (By similarity). In natural killer cells, binds to the NFIL3 promoter and acts as a transcriptional activator of NFIL3, promoting natural killer cell development (By similarity). Plays a role in the cAMP-dependent regulation of CYP17A1 gene expression via its cAMP-regulatory sequence (CRS1) (By similarity). Probably in complex with MEIS2, involved in transcriptional regulation by KLF4 (PubMed:<a href="http://www.uniprot.org/citations/21746878" target="\_blank">21746878</a>). Acts as a transcriptional activator of NKX2-5 and a transcriptional repressor of CDKN2B (By similarity). Together with NKX2-5, required for spleen development through a mechanism that involves CDKN2B repression (By similarity).

### Cellular Location

Nucleus.

### Tissue Location

Expressed in the kidney. Expressed in the endothelial cells of the glomeruli and

interstitium (at protein level)  
(PubMed:28270404). Expressed in all  
tissues except in cells of the B and T  
lineage. Expressed strongly in kidney and  
brain (PubMed:28270404).

### **PBX1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)