

**(Mouse) Sox17 Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP21226b**

**Specification**

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**(Mouse) Sox17 Blocking Peptide (C-term) - Product Information**

Primary Accession [Q61473](#)

**(Mouse) Sox17 Blocking Peptide (C-term) - Additional Information**

**Gene ID** 20671

**Other Names**

Transcription factor SOX-17, Sox17, Sox-17

**Target/Specificity**

The synthetic peptide sequence is selected from aa 353-367 of HUMAN Sox17

**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.

**(Mouse) Sox17 Blocking Peptide (C-term) - Protein Information**

**Name** Sox17

**Synonyms** Sox-17

**Function**

Acts as a transcription regulator that binds target promoter DNA and bends the DNA (PubMed:<a href="http://www.uniprot.org/citations/8636240" target="\_blank">8636240</a>, PubMed:<a href="http://www.uniprot.org/citations/24153254" target="\_blank">24153254</a>, PubMed:<a href="http://www.uniprot.org/citations/19328208" target="\_blank">19328208</a>). Binds to the sequences 5'-AACAAT-'3 or 5'-AACAAAG-3' (PubMed:<a href="http://www.uniprot.org/citations/8636240" target="\_blank">8636240</a>). Modulates transcriptional regulation via WNT3A. Inhibits Wnt signaling. Promotes degradation of activated CTNNB1. Plays a key role in the regulation of embryonic development (PubMed:<a href="http://www.uniprot.org/citations/11973269" target="\_blank">11973269</a>, PubMed:<a href="http://www.uniprot.org/citations/17655922" target="\_blank">17655922</a>, PubMed:<a href="http://www.uniprot.org/citations/24153254" target="\_blank">24153254</a>). Required for normal development of the definitive gut endoderm (PubMed:<a href="http://www.uniprot.org/citations/11973269" target="\_blank">11973269</a>). Required for

normal looping of the embryonic heart tube. Plays an important role in embryonic and postnatal vascular development, including development of arteries (PubMed:<a href="http://www.uniprot.org/citations/24153254" target="\_blank">24153254</a>). Plays an important role in postnatal angiogenesis, where it is functionally redundant with SOX18 (PubMed:<a href="http://www.uniprot.org/citations/16895970" target="\_blank">16895970</a>). Required for the generation and maintenance of fetal hematopoietic stem cells, and for fetal hematopoiesis (PubMed:<a href="http://www.uniprot.org/citations/17655922" target="\_blank">17655922</a>). Probable transcriptional activator in the premeiotic germ cells.

#### **Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:20802155, ECO:0000269|PubMed:24153254, ECO:0000269|PubMed:8636240}

#### **Tissue Location**

Detected in lung and testis (PubMed:8636240). Detected in endothelial cells around small and large arteries in newborns and adults, but is barely detectable in veins (at protein level) (PubMed:24153254).

### **(Mouse) Sox17 Blocking Peptide (C-term) - Protocols**

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

- [Blocking Peptides](#)

### **(Mouse) Sox17 Blocking Peptide (C-term) - Images**

### **(Mouse) Sox17 Blocking Peptide (C-term) - Background**

Acts as transcription regulator that binds target promoter DNA and bends the DNA. Binds to the sequences 5'- AACAAAT-'3 or 5'-AACAAAG-3'. Modulates transcriptional regulation via WNT3A. Inhibits Wnt signaling. Promotes degradation of activated CTNNB1. Plays a key role in the regulation of embryonic development. Required for normal looping of the embryonic heart tube. Required for normal development of the definitive gut endoderm. Probable transcriptional activator in the premeiotic germ cells. Isoform 2 (T-SOX17) shows no DNA-binding activity.

### **(Mouse) Sox17 Blocking Peptide (C-term) - References**

Kanai Y.,et al.J. Cell Biol. 133:667-681(1996).  
Carninci P.,et al.Science 309:1559-1563(2005).  
Layfield R.,et al.Submitted (FEB-1994) to the EMBL/GenBank/DDBJ databases.  
Kanai-Azuma M.,et al.Development 129:2367-2379(2002).  
Kim I.,et al.Cell 130:470-483(2007).