10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

(Mouse) Sox17 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21025c

Specification

(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 376-389 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:8636240, PubMed:24153254, PubMed:19328208). Binds to the sequences 5'-AACAAT-'3 or 5'-AACAAAG-3' (PubMed:8636240). Modulates transcriptional regulation via WNT3A. Inhibits Wnt signaling. Promotes degradation of activated CTNNB1. Plays a key role in the regulation of embryonic development (PubMed:11973269, PubMed:17655922, PubMed:24153254). Required for normal development of the definitive gut endoderm (PubMed:11973269). Required for

normal looping of the embryonic heart tube. Plays an important role in embryonic and postnatal vascular development, including development of arteries (PubMed:24153254). Plays an important role in postnatal angiogenesis, where it is functionally redundant with SOX18 (PubMed:16895970). Required for the generation and maintenance of fetal hematopoietic stem cells, and for fetal hematopoiesis (PubMed:17655922). 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'- AACAAT-'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).