

**(Mouse) Sox2 Blocking Peptide (N-term)**  
**Synthetic peptide**  
**Catalog # BP21154a**

**Specification**

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**(Mouse) Sox2 Blocking Peptide (N-term) - Product Information**

Primary Accession [P48432](#)

**(Mouse) Sox2 Blocking Peptide (N-term) - Additional Information**

**Gene ID** 20674

**Other Names**

Transcription factor SOX-2, Sox2, Sox-2

**Target/Specificity**

The synthetic peptide sequence is selected from aa 34-48 of HUMAN Sox2

**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) Sox2 Blocking Peptide (N-term) - Protein Information**

**Name** Sox2

**Synonyms** Sox-2

**Function**

Transcription factor that forms a trimeric complex with POU5F1 (OCT3/4) on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (PubMed:<a href="http://www.uniprot.org/citations/15863505" target="\_blank">15863505</a>, PubMed:<a href="http://www.uniprot.org/citations/17097055" target="\_blank">17097055</a>, PubMed:<a href="http://www.uniprot.org/citations/19740739" target="\_blank">19740739</a>, PubMed:<a href="http://www.uniprot.org/citations/32703285" target="\_blank">32703285</a>). Binds to the proximal enhancer region of NANOG (PubMed:<a href="http://www.uniprot.org/citations/15863505" target="\_blank">15863505</a>). Critical for early embryogenesis and for embryonic stem cell pluripotency (By similarity). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (PubMed:<a href="http://www.uniprot.org/citations/22198669" target="\_blank">22198669</a>). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity). May function as a switch in neuronal development (By similarity).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:17097055, ECO:0000269|PubMed:19349578, ECO:0000269|PubMed:32127020}. Cytoplasm Note=Nuclear import is facilitated by XPO4, a protein that usually acts as a nuclear export signal receptor.

**Tissue Location**

Expressed in the cochlea (at protein level) (PubMed:32127020). Expressed in the brain and retina (PubMed:15863505, PubMed:7590241). A very low level of expression is seen in the stomach and lung (PubMed:15863505, PubMed:7590241). Expressed in the kidney (PubMed:15863505).

**(Mouse) Sox2 Blocking Peptide (N-term) - Protocols**

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

- [Blocking Peptides](#)

**(Mouse) Sox2 Blocking Peptide (N-term) - Images****(Mouse) Sox2 Blocking Peptide (N-term) - Background**

Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity).

**(Mouse) Sox2 Blocking Peptide (N-term) - References**

Yuan H.,et al.Genes Dev. 9:2635-2645(1995).  
Yuan H.,et al.Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.  
Collignon J.,et al.Development 122:509-520(1996).  
Tsuruzoe S.,et al.Biochem. Biophys. Res. Commun. 351:920-926(2006).  
Takahashi K.,et al.Cell 126:663-676(2006).