

**SOX2 Antibody (A30) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2048g****Specification****SOX2 Antibody (A30) Blocking Peptide - Product Information**Primary Accession [P48431](#)**SOX2 Antibody (A30) Blocking Peptide - Additional Information****Gene ID** 6657**Other Names**

Transcription factor SOX-2, SOX2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2048g](/products/AP2048g) was selected from the A30 region of human SOX2. 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.

**SOX2 Antibody (A30) Blocking Peptide - Protein Information****Name** SOX2**Function**

Transcription factor that forms a trimeric

**SOX2 Antibody (A30) Blocking Peptide - Background**

The intronless gene for SOX2 encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. Mutations in the SOX2 gene have been associated with bilateral anophthalmia, a severe form of structural eye malformation.

**SOX2 Antibody (A30) Blocking Peptide - References**

Remenyi, A., et al., Genes Dev. 17(16):2048-2059 (2003). Wiebe, M.S., et al., J. Biol. Chem. 278(20):17901-17911 (2003). Fantes, J., et al., Nat. Genet. 33(4):461-463 (2003). Schepers, G.E., et al., Dev. Cell 3(2):167-170 (2002). Kamachi, Y., et al., Trends Genet. 16(4):182-187 (2000).

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 (By similarity). Binds to the proximal enhancer region of NANOG (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:<a href="http://www.uniprot.org/citations/18035408" target="\_blank">18035408</a>). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). 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:0000250|UniProtKB:P48432}.

**SOX2 Antibody (A30) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)