

**Anti-SOX2 (Transcription Factor) Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13512**

**Specification**

**Anti-SOX2 (Transcription Factor) Antibody -  
Product Information**

|                   |                         |
|-------------------|-------------------------|
| Application       | ,1,14,3,4,10,           |
| Primary Accession | <a href="#">P48431</a>  |
| Other Accession   | <a href="#">518438</a>  |
| Reactivity        | Human                   |
| Host              | Mouse                   |
| Clonality         | Monoclonal              |
| Isotype           | Mouse / IgG2b,<br>kappa |
| Calculated MW     | 34310                   |

**Anti-SOX2 (Transcription Factor) Antibody -  
Additional Information**

**Gene ID** 6657

**Other Names**

ANOP3; Delta EF2a; MCOPS3  
(Microphthalmia Syndromic type 3); SOX-2;  
SRY (sex determining region Y) box 2; SRY  
related HMG box 2; Transcription factor  
SOX-2; ysb

**Format**

200ug/ml of Ab purified from Bioreactor  
Concentrate by Protein A/G. Prepared in  
10mM PBS with 0.05% BSA & 0.05% azide.  
Also available WITHOUT BSA & azide at  
1.0mg/ml.

**Storage**

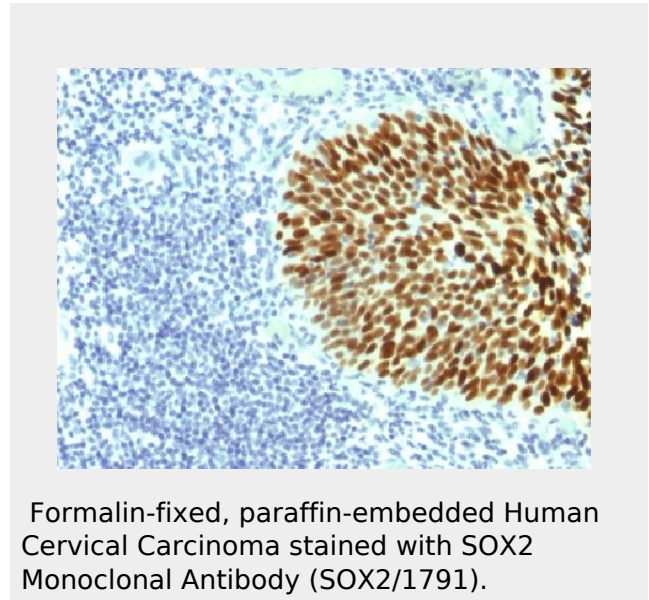
Store at 2 to 8°C. Antibody is stable for 24  
months.

**Precautions**

Anti-SOX2 (Transcription Factor) Antibody is  
for research use only and not for use in  
diagnostic or therapeutic procedures.

**Anti-SOX2 (Transcription Factor) Antibody -  
Protein Information**

**Name** SOX2



**Anti-SOX2 (Transcription Factor) Antibody  
- Background**

SOX2 is 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. At present, 30 Sox genes have been  
identified. SOX2 is required for stem cell  
maintenance in the central nervous system,  
and it also regulates gene expression in the  
stomach. SOX2 is necessary for regulating  
multiple transcription factors that affect Oct  
3/4 expression. An essential function of SOX2  
is to stabilize embryonic stem cells in a  
pluripotent state by maintaining the requisite  
level of Oct 3/4 expression.

**Function**

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 (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}.

**Anti-SOX2 (Transcription Factor) Antibody  
- Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)