

**SOX4 Antibody**  
**Catalog # ASC11902****Specification****SOX4 Antibody - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">Q06945</a>
Other Accession	<a href="#">NP_003098</a> , <a href="#">4507163</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 52 kDa

Application Notes	<b>Observed: 520 kDa KDa</b> SOX4 antibody can be used for detection of SOX4 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.
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**SOX4 Antibody - Additional Information**

Gene ID	6659
<b>Target/Specificity</b>	
SOX4; SOX4 antibody is human, mouse and rat reactive.	

**Reconstitution & Storage**

SOX4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

SOX4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SOX4 Antibody - Protein Information**

**Name** SOX4 {ECO:0000303|PubMed:8268656, ECO:0000312|HGNC:HGNC:11200}

**Function**

Transcriptional activator that binds with high affinity to the T-cell enhancer motif 5'-AACAAAG-3' motif (PubMed:<a href="http://www.uniprot.org/citations/30661772" target="\_blank">30661772</a>). Required for IL17A-producing Vgamma2-positive gamma-delta T-cell maturation and development, via binding to regulator loci of RORC to modulate expression (By similarity). Involved in skeletal myoblast differentiation by promoting gene expression of CALD1 (PubMed:<a href="http://www.uniprot.org/citations/26291311" target="\_blank">26291311</a>).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:16631117}

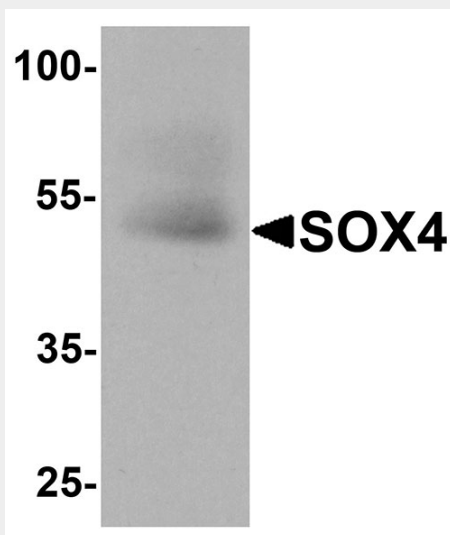
**Tissue Location**

Testis, brain, and heart.

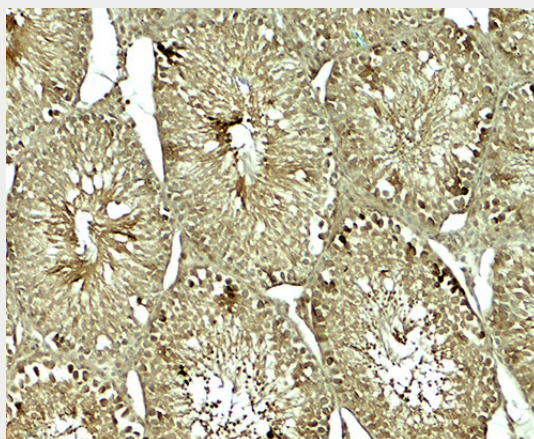
**SOX4 Antibody - Protocols**

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

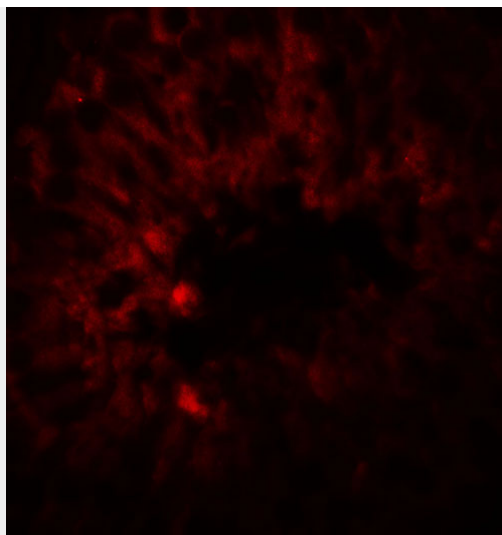
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SOX4 Antibody - Images**

Western blot analysis of SOX4 in human testis tissue lysate with SOX4 antibody at 1  $\mu$ g/ml.



Immunohistochemistry of SOX4 in rat testis tissue with SOX4 antibody at 5  $\mu$ g/mL.



Immunofluorescence of SOX4 in rat testis tissue with SOX4 antibody at 20 µg/mL.

### **SOX4 Antibody - Background**

SOX4 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate (1,2). It may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin) (3). SOX4 contains one HMG box DNA-binding domain and may function in the apoptosis pathway leading to cell death. It has also been suggested to play a role in tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development (4,5).

### **SOX4 Antibody - References**

Wotton D, Lake RA, Farr CJ, et al. The high mobility group transcription factor, SOX4, transactivates the human CD2 enhancer. *J. Biol. Chem.* 1995; 270:7515-22.

Pan X, Li H, Zhang P, et al. Ubc9 interacts with SOX4 and represses its transcriptional activity. *Biochem. Biophys. Res. Commun.* 2006; 344:727-34.

Castillo SD, Matheu A, Mariani N, et al. Novel transcriptional targets of the SRY-HMG box transcription factor SOX4 link its expression to the development of small cell lung cancer. *Cancer Res.* 2012; 72:176-86.

Zhang H, Alberich-Jorda M, Amabile G, et al. Sox4 is a key oncogenic target in C/EBPα mutant acute myeloid leukemia. *Cancer Cell* 2013; 24:575-88.