

SOX4 Antibody

Catalog # ASC11902

Specification

SOX4 Antibody - Product Information

Application **WB, IHC, IF**
 Primary Accession [Q06945](#)
 Other Accession [NP_003098](#),
[4507163](#)
 Reactivity **Human, Mouse, Rat**
 Host **Rabbit**
 Clonality **Polyclonal**
 Isotype **IgG**
 Calculated MW **Predicted: 52 kDa**

Application Notes **Observed: 520 kDa**
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.

SOX4 Antibody - Additional Information

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

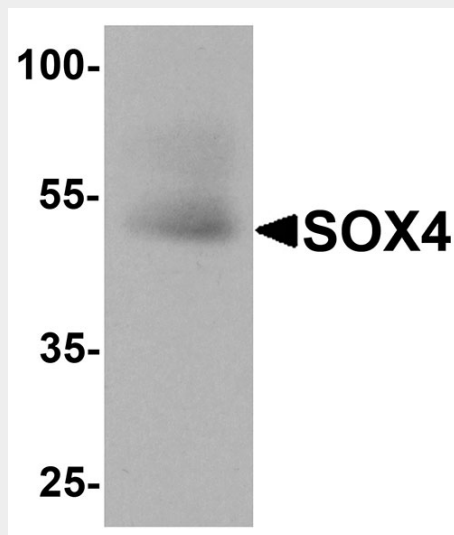
Reconstitution & Storage

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

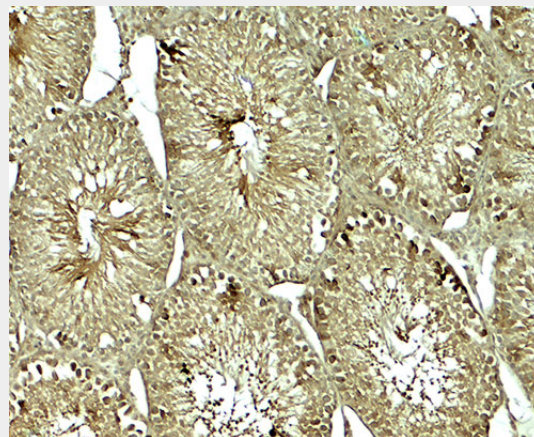
Precautions

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

SOX4 Antibody - Protein Information



Western blot analysis of SOX4 in human testis tissue lysate with SOX4 antibody at 1 µg/ml.



Immunohistochemistry of SOX4 in rat testis tissue with SOX4 antibody at 5 µg/mL.

Name SOX4

Function

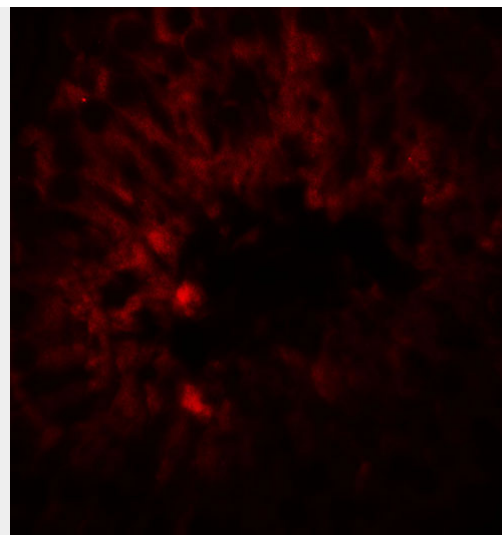
Transcriptional activator that binds with high affinity to the T-cell enhancer motif 5'-AACAAAG-3' motif (PubMed:30661772). Required for IL17A-producing Vgamma2-positive gamma-delta T-cell maturation and development, via binding to regulator loci of RORC to modulate expression (By similarity).

Cellular Location

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

Tissue Location

Testis, brain, and heart.



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 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 is a key oncogenic target in C/EBPa mutant acute myeloid leukemia. Cancer Cell 2013; 24:575-88.