

**SOX4 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2045c**

**Specification**

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**SOX4 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">Q06945</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>47263</b>
Antigen Region	<b>269-297</b>

**SOX4 Antibody (Center) - Additional Information**

**Gene ID** 6659

**Other Names**

Transcription factor SOX-4, SOX4

**Target/Specificity**

This SOX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 269-297 amino acids from the Central region of human SOX4.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**SOX4 Antibody (Center) - 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:[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). Involved in skeletal myoblast differentiation by promoting gene expression of CALD1 (PubMed:[26291311](#)).

#### Cellular Location

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

#### Tissue Location

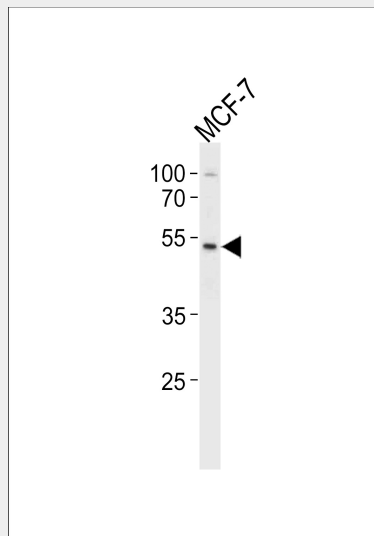
Testis, brain, and heart.

### SOX4 Antibody (Center) - Protocols

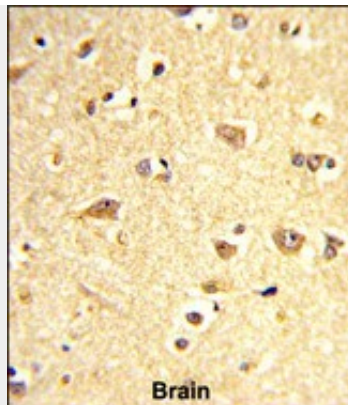
Provided below are standard protocols that you may find useful for product applications.

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

### SOX4 Antibody (Center) - Images



SOX4 Antibody (Center) (Cat. #AP2045c) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the SOX4 antibody detected the SOX4 protein (arrow).



Formalin-fixed and paraffin-embedded human brain reacted with SOX4 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### **SOX4 Antibody (Center) - 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. The protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein.

#### **SOX4 Antibody (Center) - References**

Farr C.J., Easty D.J. Mamm. Genome 4:577-584(1993)  
Pan X., Li H., Zhang P. Biochem. Biophys. Res. Commun. 344:727-734(2006)