

**Anti-SOX4 Picoband Antibody**  
**Catalog # ABO12304****Specification**

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**Anti-SOX4 Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q06945</a> |
| Host              | Rabbit                 |
| Reactivity        | Human                  |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Transcription factor SOX-4(SOX4) detection. Tested with WB in Human.<br>

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SOX4 Picoband Antibody - Additional Information**

**Gene ID** 6659

**Other Names**

Transcription factor SOX-4, SOX4

**Calculated MW**

47263 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Nucleus .

**Tissue Specificity**

Testis, brain, and heart.

**Protein Name**

Transcription factor SOX-4

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human SOX4 (1-31aa MVQQTNNAENTEALLAGESSDGSAGLELGIA), identical to the related mouse sequence.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Contains 1 HMG box DNA-binding domain.

**Anti-SOX4 Picoband 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: [30661772](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/26291311)).

**Cellular Location**

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

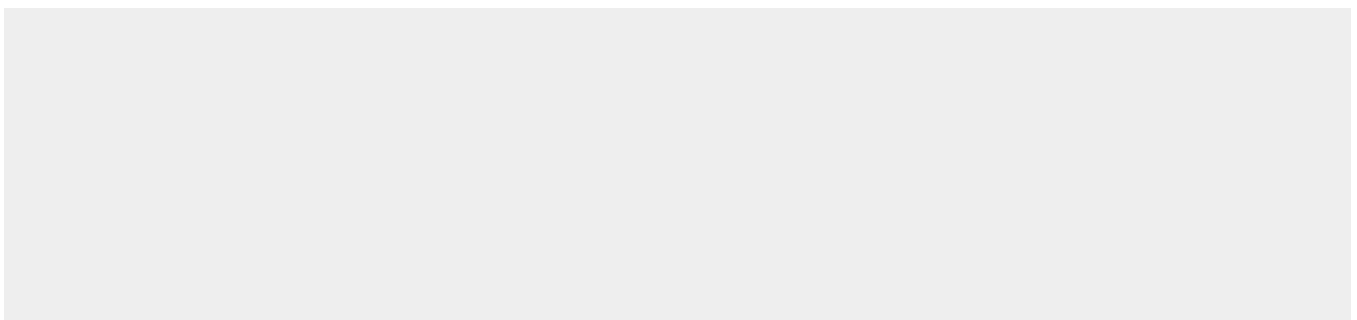
**Tissue Location**

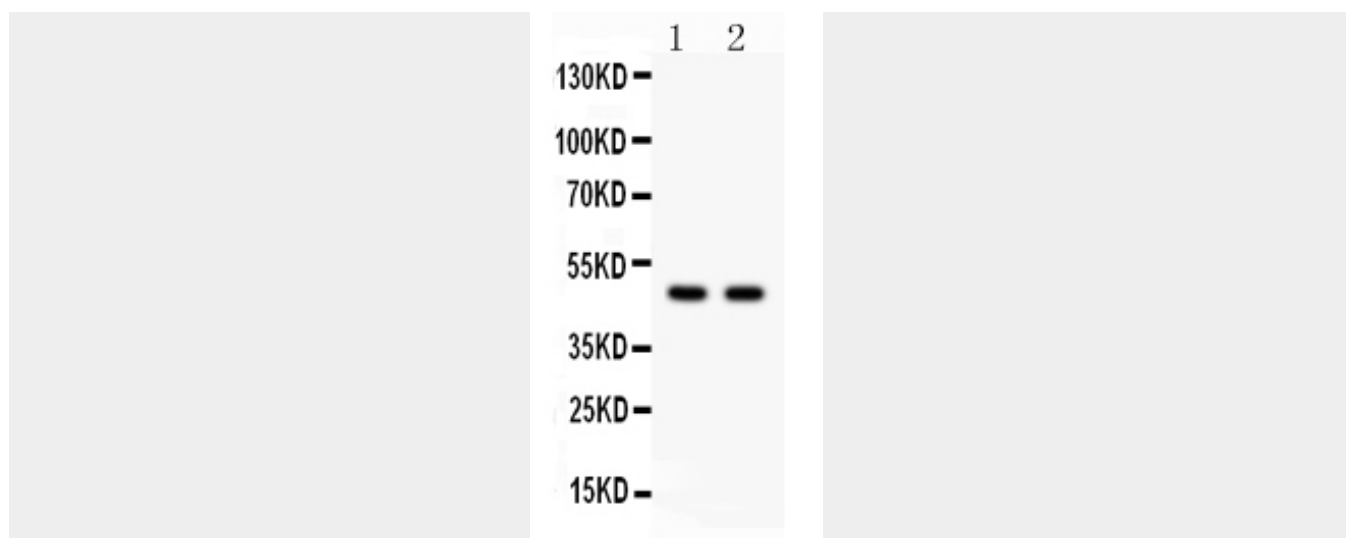
Testis, brain, and heart.

**Anti-SOX4 Picoband 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](#)

**Anti-SOX4 Picoband Antibody - Images**



Anti- SOX4 Picoband antibody, ABO12304, Western blotting All lanes: Anti SOX4 (ABO12304) at 0.5ug/ml  
Lane 1: MCF-7 Whole Cell Lysate at 40ug  
Lane 2: 293T Whole Cell Lysate at 40ug  
Predicted bind size: 47KD  
Observed bind size: 47KD

#### **Anti-SOX4 Picoband Antibody - Background**

Transcription factor SOX-4 is a protein that in humans is encoded by the SOX4 gene. This intronless gene encodes 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 encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). This 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.