

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

Anti-SOX4 Picoband Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q06945 |
| 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.

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

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 Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human SOX4 (1-31aa MVQQTNNAENTEALLAGESSDSGAGLELGIA), 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}

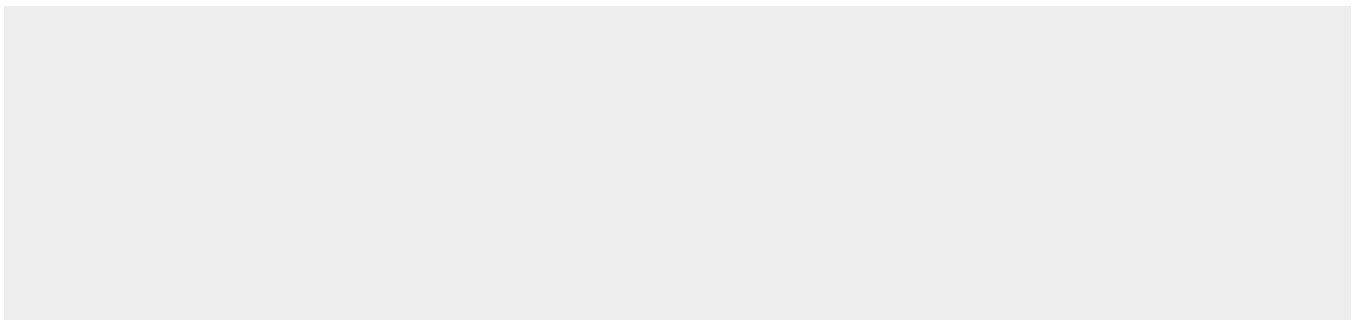
Tissue Location

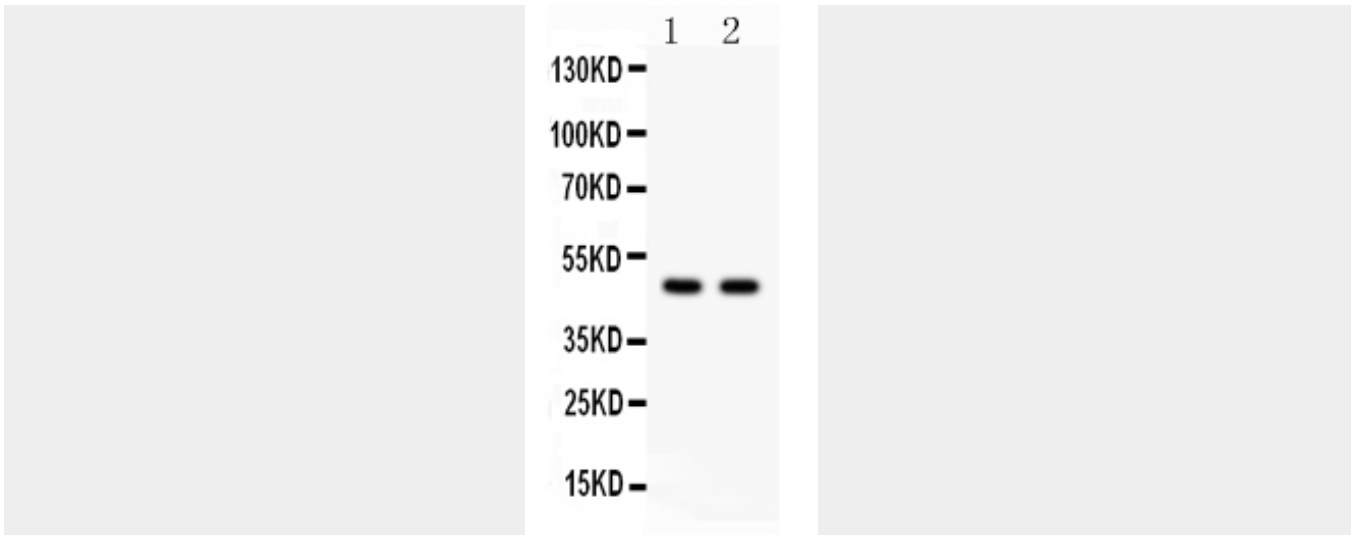
Testis, brain, and heart.

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.