

Anti-SOX4 Picoband Antibody

Catalog # ABO12304

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.

Additional Information

Gene ID	6659
Other Names	Transcription factor SOX-4, SOX4
Calculated MW	47263
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Nucleus .
Tissue Specificity	Testis, brain, and heart.
Source	Eukaryota
Protein Name	Transcription factor SOX-4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SOX4 (1-31aa MVQQTNN AENTEALLAGESSDSGAGLELGIA), 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.

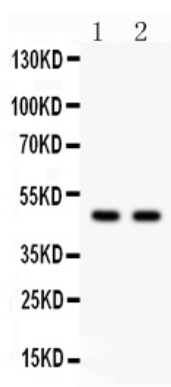
Protein Information

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.

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.