BOSTER BIOLOGICAL TECHNOLOGY
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Anti-SOX4 Antibody Picoband®

Catalog Number: PB9618

About SOX4

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.

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Overview

Product Name	Anti-SOX4 Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-SOX4 Antibody Picoband® catalog # PB9618. Tested in WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q06945

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SOX4, identical to the related mouse sequence.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse

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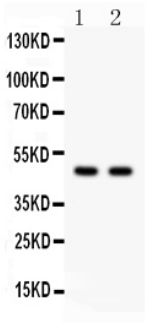
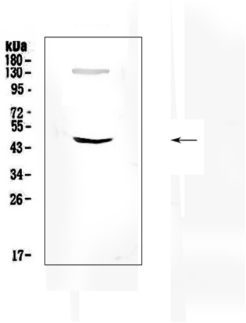
Anti-SOX4 Antibody Picoband® (PB9618) Images



Western blot analysis of SOX4 using anti-SOX4 antibody (PB9618). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: MCF-7 Whole Cell Lysate, Lane 2: 293T Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SOX4 antigen affinity purified polyclonal antibody (Catalog # PB9618) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SOX4 at approximately 47KD. The expected band size for SOX4 is at 47KD.



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1 Publications Citing This Product

1. PubMed ID: 32256813, Huang J,Lu D,Xiang T,Wu X,Ge S,Wang Y,Wang J,Cheng N. MicroRNA-132-3p regulates cell proliferation, apoptosis, migration and invasion of liver cancer by targeting Sox4. Oncol Lett.2020 Apr;19(4):3173-3180.doi:10.3892/ol.2020.11431.Epub 2020 Mar 3.PMID:322

Visit bosterbio.com/anti-sox4-picoband-trade-antibody-pb9618-boster.html to see all 1 publications.

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