

Anti-TCF7 Antibody Picoband®

Catalog Number: A01315-2

About TCF7

Transcription factor 7 is a protein that in humans is encoded by the TCF7 gene. It is mapped to 5q31.1. This gene encodes a member of the T-cell factor/lymphoid enhancer-binding factor family of high mobility group (HMG) box transcriptional activators. This gene is expressed predominantly in T-cells and plays a critical role in natural killer cell and innate lymphoid cell development. The encoded protein forms a complex with beta-catenin and activates transcription through a Wnt/beta-catenin signaling pathway. Mice with a knockout of this gene are viable and fertile, but display a block in T-lymphocyte differentiation. Alternative splicing results in multiple transcript variants. Naturally-occurring isoforms lacking the N-terminal beta-catenin interaction domain may act as dominant negative regulators of Wnt signaling.

Overview

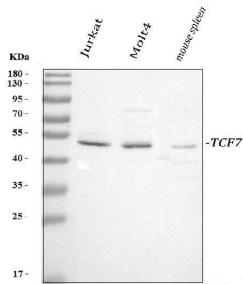
Product Name	Anti-TCF7 Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-TCF7 Antibody Picoband® catalog # A01315-2. Tested in WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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 Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	P36402

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human TCF7, which shares 90.6% amino acid (aa) sequence identity with mouse TCF7.
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

Anti-TCF7 Antibody Picoband® (A01315-2) Images



Western blot analysis of TCF7 using anti-TCF7 antibody (A01315-2). 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 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human MOLT-4 whole cell lysates, Lane 3: mouse spleen tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-TCF7 antigen affinity purified polyclonal antibody (Catalog # A01315-2) 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 1:5000 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 TCF7 at approximately 50 kDa. The expected band size for TCF7 is at 42 kDa.

1 Publications Citing This Product

1. PubMed ID: 10.1038/s41420-021-00775-8, LncRNA4930473A02Rik promotes cardiac hypertrophy by regulating TCF7 via sponging miR-135a in mice

Visit bosterbio.com/anti-tcf7-picoband-trade-antibody-a01315-2-boster.html to see all 1 publications.

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Anti-TCF7 Antibody

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