

Anti-Foxp3 Antibody Picoband®

Catalog Number: A00011-2

About Foxp3

FOXP3(forkhead box P3) is a protein involved in immune system responses. The human FOXP3 genes contain 11 coding exons. Exon-intron boundaries are identical across the coding regions of the mouse and human genes. By genomic sequence analysis, the FOXP3 gene maps to the p arm of the X chromosome(specifically, Xp11.23). A member of the FOX protein family, FOXP3 appears to function as a master regulator in the development and function of regulatory T cells. While the precise control mechanism has not yet been established, FOX proteins belong to the forkhead/winged-helix family of transcriptional regulators and are presumed to exert control via similar DNA binding interactions during transcription.

Overview

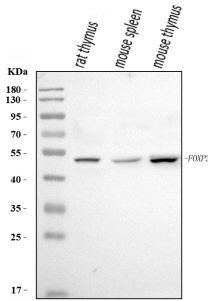
Product Name	Anti-Foxp3 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Foxp3 Antibody Picoband® catalog # A00011-2. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high 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 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q99JB6

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse Foxp3, which shares 94.4% amino acid (aa) sequence identity with human FOXP3.
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, 0.25-0.5 ug/ml, Mouse, Rat

Anti-Foxp3 Antibody Picoband® (A00011-2) Images



Western blot analysis of Foxp3 using anti-Foxp3 antibody (A00011-2). 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: rat thymus tissue lysates, Lane 2: mouse spleen tissue lysates, Lane 3: mouse thymus 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-Foxp3 antigen affinity purified polyclonal antibody (Catalog # A00011-2) 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 Foxp3 at approximately 50 kDa. The expected band size for Foxp3 is at 50 kDa.

5 Publications Citing This Product

1. PubMed ID: 10.1152/ajplung.00409.2016, Impaired TNF/TNFR2 signaling enhances Th2 and Th17 polarization and aggravates allergic airway inflammation
2. PubMed ID: 10.1021/acs.jafc.5b06177, Lactobacillus plantarum NCU116 Attenuates Cyclophosphamide-Induced Immunosuppression and Regulates Th17/Treg Cell Immune Responses in Mice
3. PubMed ID: 10.1016/j.bulcan.2014.09.003, Cooperative effect of Bifidobacteria lipoteichoic acid combined with 5-fluorouracil on hepatoma-22 cells growth and apoptosis

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Anti-Foxp3 Antibody

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