BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IL2 Antibody Picoband®

Catalog Number: PB9013

About Il2

Interleukin-2 (IL2), formerly referred to as T-cell growth factor, is a powerfully immunoregulatory lymphokine that is produced by lectin- or antigen-activated T cells. It is produced not only by mature T lymphocytes on stimulation but also constitutively by certain T-cell lymphoma cell lines. The lymphokine interleukin-2 (IL-2) is responsible for autocrine cell cycle progression and regulation of immune responses. IL-2 expression in mature thymocytes and T cells has been found to be tightly controlled by monoallelic expression. IL-2 can act as a growth hormone for both B and T lymphocytes. This gene for interleukin 2 (IL2) is assigned to chromosome 4. IL-2 is a 15.5KDa glycoprotein, consisting of 153 amino acids in precursor form and 133 amino acids in mature form.

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Overview

Product Name	Anti-IL2 Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-IL2 Antibody Picoband® catalog # PB9013. Tested in WB applications. This antibody reacts with 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 antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P17108

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Technical Details

Immunogen	E.coli-derived rat IL-2 recombinant protein (Position: A21-Q155). Rat IL-2 shares 66% and 80% amino acid (aa) sequences identity with human and mouse IL-2, respectively.
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, Rat

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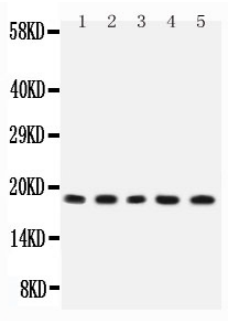
Anti-IL2 Antibody Picoband® (PB9013) Images



Western blot analysis of IL2 using anti-IL2 antibody (PB9013). 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: Rat Thymus Tissue Lysate, Lane 2: Rat Liver Tissue Lysate, Lane 3: NRK Whole Cell Lysate, Lane 4: PC12 Whole Cell Lysate, Lane 5: RH35 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-IL2 antigen affinity purified polyclonal antibody (Catalog # PB9013) 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 IL2 at approximately 18KD. The expected band size for IL2 is at 18KD.

7 Publications Citing This Product

1. PubMed ID: 25881060, Hu W,, Jing P, Wang L, Zhang Y, Yong J, Wang Y. Bmc Complement Altern Med. 2015 Apr 15;15:119. Doi: 10.1186/S12906-015-0642-3. The Positive Effects Of Ginsenoside Rg1 Upon The Hematopoietic Microenvironment In A D-Galactose-Induced Aged Rat Model.

2. PubMed ID: 26002283, Xie Ft, Cao Js, Zhao J, Yu Y, Qi F, Dai Xc. Transpl Immunol. 2015 Oct;33(2):69-77. Doi: 10.1016/J.Trim.2015.05.003. Epub 2015 May 20. Ido Expressing Dendritic Cells Suppress Allograft Rejection Of Small Bowel Transplantation In Mice By Expansion O...

3. PubMed ID: 26064167, Gong T, Wang Cf, Yuan Jr, Li Y, Gu Jf, Zhao Bj, Zhang L, Jia Xb, Feng L, Liu Sl. Evid Based Complement Alternat Med. 2015;2015:630760. Doi: 10.1155/2015/630760. Epub 2015 May 3. Inhibition Of Tumor Growth And Immunomodulatory Effects Of Flavonoids...

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