

## 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.

### 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 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	P17108

### 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.
Predicted Reactive Species	Bovine, Chicken, Horse, Monkey, Rabbit
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Rat</p>

## Anti-IL2 Antibody Picoband™ (PB9013) Images

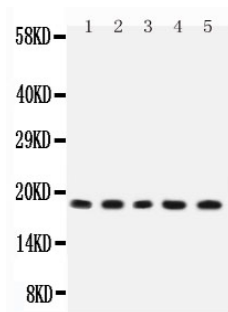


Figure 1. Western blot analysis of IL2 using anti-IL2 antibody (PB9013).

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: 25667679, Chen B, Liu L, Xu H, Yang Y, Zhang L, Zhang F. Exp Ther Med. 2015 Mar;9(3):1063-1067. Epub 2015 Jan 26. Effectiveness Of Immune Therapy Combined With Chemotherapy On The Immune Function And Recurrence Rate Of Cervical Cancer.
2. PubMed ID: 22594905, Zhong B, Shen H, Sun X, Wang H, Zhang Y, Sun Z. Cancer Biother Radiopharm. 2012 May;27(4):252-8. Doi: 10.1089/Cbr.2011.1105. Additive Effects Of Ulinastatin And Docetaxel On Growth Of Breast Cancer Xenograft In Nude Mice And Expression Of Pge2, Il...
3. PubMed ID: 28902929, Women with Recurrent Miscarriage Have Decreased Expression of 25-Hydroxyvitamin D3-1?-Hydroxylase by the Fetal-Maternal Interface

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