BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Interleukin-3 IL3 Antibody Picoband®

Catalog Number: RP1046

About Il3

Interleukin 3, also known as IL-3, is a protein that in humans is encoded by the IL3 gene. It is mapped to 5q31.1. IL-3 is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the interleukin-3 receptor. IL-3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells or, with the addition of IL-7, into lymphoid progenitor cells. In addition, IL-3 stimulates proliferation of all cells in the myeloid lineage (granulocytes, monocytes, and dendritic cells), in conjunction with other cytokines, e.g., Erythropoietin (EPO), Granulocyte macrophage colony-stimulating factor (GM-CSF), and IL-6. IL-3 is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response.

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Overview

Product Name	Anti-Interleukin-3 IL3 Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-Interleukin-3 IL3 Antibody catalog # RP1046. Tested in ELISA, 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	ELISA, 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	P04823

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antibody and ELISA experts

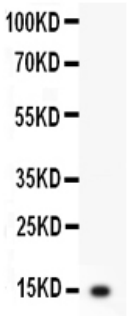
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Technical Details

Immunogen	E. coli-derived rat IL-3 recombinant protein (Position: S28-C166). Rat IL-3 shares 32% and 55% amino acid (aa) sequence identity with human and mouse IL-3, 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	ELISA, 0.1-0.5ug/ml, - Western blot, 0.1-0.5ug/ml, Rat

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Anti-Interleukin-3 IL3 Antibody Picoband® (RP1046) Images



Anti-IL-3 antibody, RP1046, Western blottingAll lanes: Anti IL-3 (RP1046) at 0.5ug/mlWB: Recombinant Rat IL-3 Protein 0.5ngPredicted bind size: 15KDObserved bind size: 15KD



Anti-IL-3 antibody, RP1046, Western blottingAll lanes: Anti IL-3 (RP1046) at 0.5ug/mlLane 1: PC-12 Whole Cell Lysate at 40ugLane 2: NRK Whole Cell Lysate at 40ugLane 3: RH35 Whole Cell Lysate at 40ugPredicted bind size: 17KDObserved bind size: 37KD

Anti-Interleukin-3 IL3 Antibody

For Research Use Only. Not for use in diagnostic procedures.