

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.

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 Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *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

Technical Details

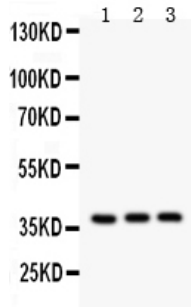
Immunogen	E. coli-derived rat IL-3 recombinant protein (Position: S28-C166). Rat IL-3 shares 32% and 55% amino acid (aa) sequence identity with human and mouse IL-3, respectively.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent 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

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



Anti-IL-3 antibody, RP1046, Western blotting
All lanes: Anti IL-3 (RP1046) at 0.5ug/ml
WB: Recombinant Rat IL-3 Protein 0.5ng
Predicted bind size: 15KD
Observed bind size: 15KD



Anti-IL-3 antibody, RP1046, Western blotting
All lanes: Anti IL-3 (RP1046) at 0.5ug/ml
Lane 1: PC-12 Whole Cell Lysate at 40ug
Lane 2: NRK Whole Cell Lysate at 40ug
Lane 3: RH35 Whole Cell Lysate at 40ug
Predicted bind size: 17KD
Observed bind size: 37KD

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Anti-Interleukin-3 IL3 Antibody

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