

Anti-Interleukin-3 IL3 Antibody

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
Reactive Species	Rat
Description	Boster Bio Anti-Interleukin-3 IL3 Antibody catalog # RP1046. Tested in ELISA, WB applications. This antibody reacts with Rat.
Application	ELISA, 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	P04823

Technical Details

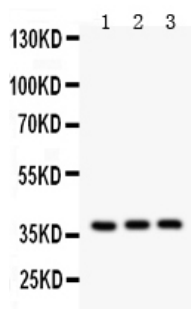
Immunogen	E. coli-derived rat IL-3 recombinant protein (Position: S28-C166). Rat IL-3 shares 32% and 55% amino acid (aa) sequence identity with human and mouse IL-3, respectively.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit 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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: ELISA , 0.1-0.5ug/ml, Rat, - Western blot, 0.1-0.5ug/ml, Rat

Anti-Interleukin-3 IL3 Antibody (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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