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BOSTER BIOLOGICAL TECHNOLOGY
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Anti- IL3 Monoclonal Antibody

Catalog Number: M02435

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- IL3 Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti- IL3 Monoclonal Antibody catalog # M02435. Tested in WB applications. This antibody reacts with Mouse.
Application	WB
Clonality	Monoclonal AFIB-9
Formulation	PBS, pH 7.0. Contains no stabilizers or preservatives
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rat
Uniprot ID	P01586

Technical Details

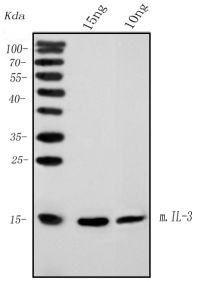
Immunogen	COS-expressed, recombinant mouse IL-3
Predicted Reactive Species	Bovine

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1001) for Western blot
Cross Reactivity	No cross reactivity with other proteins
Isotype	Rat IgG1
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Mouse Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

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Anti- IL3 Monoclonal Antibody (M02435) Images



Western blot analysis of IL3 using anti-IL3 antibody (M02435). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant mouse IL3 protein 15ng, Lane 2: recombinant mouse IL3 protein 10ng. 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 rat anti-IL3 antigen affinity purified monoclonal antibody (Catalog # M02435) 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-rat 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 # EK1001) with Tanon 5200 system.

Anti- IL3 Monoclonal Antibody

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