BOSTER BIOLOGICAL TECHNOLOGY
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Anti- IL-5 Monoclonal Antibody

Catalog Number: M01086

About IL5

This gene encodes a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. The encoded cytokine plays a major role in the regulation of eosinophil formation, maturation, recruitment and survival. The increased production of this cytokine may be related to pathogenesis of eosinophil-dependent inflammatory diseases. This cytokine functions by binding to its receptor, which is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene is located on chromosome 5 within a cytokine gene cluster which includes interleukin 4 (IL4), interleukin 13 (IL13), and CSF2 . This gene, IL4, and IL13 may be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [provided by RefSeq, Jul 2013]

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Overview

Product Name	Anti- IL-5 Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti- IL-5 Monoclonal Antibody catalog # M01086. Tested in WB applications. This antibody reacts with Mouse.
Application	WB
Clonality	Monoclonal AFIH-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	P05113

Technical Details

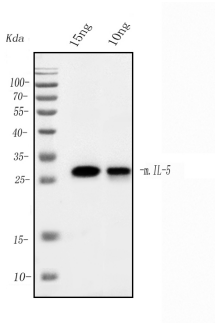
Immunogen	Mouse partially-purified T cell clone supernatant
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western

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	blot.
Cross Reactivity	No cross reactivity with other proteins
Isotype	Rat IgG1, kappa
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

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Anti- IL-5 Monoclonal Antibody (M01086) Images



Western blot analysis of IL-5 using anti-IL-5 antibody (M01086). 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 IL-5 Gamma protein 15ng, Lane 2: recombinant mouse IL-5 Gamma 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-IL-5 antigen affinity purified monoclonal antibody (Catalog # M01086) 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.

2 Publications Citing This Product

1. PubMed ID: 10.1016/j.bbrc.2016.03.156, MEK1/2 inhibitors induce interleukin-5 expression in mouse macrophages and lymphocytes

2. PubMed ID: 23150660, Chen Y, Duan Y, Kang Y, Yang X, Jiang M, Zhang L, Li G, Yin Z, Hu W, Dong P, Li X, Hajjar Dp, Han J. J Biol Chem. 2012 Dec 21;287(52):43340-50. Doi: 10.1074/Jbc.M112.403394. Epub 2012 Nov 13. Activation Of Liver X Receptor Induces Macrophage Inter...

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