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Anti-Mouse IL-17A Monoclonal Antibody

Catalog Number: M00421

About IL17A

Mouse Interleukin-17A (IL-17A), also known as CTLA-8, is a proinflammatory cytokine member of a six-species family of proteins (IL-17A-17F). Mouse IL-17A protein is a homodimer consisting of two 134 amino acids peptides. IL-17A is secreted mainly by activated CD4+ and CD8+ T lymphocytes and acts through its receptor, IL-17R, to induce the expression of many mediators of inflammation, most strikingly, those that are involved in the proliferation, maturation and chemotaxis of neutrophils. Elevated levels of IL-17A have been associated with several conditions, including rheumatoid arthritis, airway inflammation, allograft rejection, inflammatory bowel disease, psoriasis, cancer and multiple sclerosis. There is 58% identity between the amino acid sequence of human and mouse IL-17A. Anti-IL-17A antibody is ideal for investigators involved in Immunology research.

Overview

Product Name	Anti-Mouse IL-17A Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Mouse IL-17A Monoclonal Antibody (Catalog # M00421). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Monoclonal Clone: 20B4.G10.F5 IgG2a kappa
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store IL-17A antibody at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rat
Uniprot ID	Q62386

Technical Details

Immunogen	This Mouse IL-17A monoclonal antibody was produced in rats by repeated immunizations with full length recombinant mouse IL-17A protein (produced in E.coli) followed by hybridoma development.
Predicted Reactive Species	Chimpanzee
Isotype	IgG2a kappa
Form	Liquid (sterile filtered)
Concentration	2.94 mg/mL by UV absorbance at 280 nm

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Purification	This monoclonal antibody is purified by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for mouse IL-17A protein. Cross-reactivity with IL-17A from other sources has not been determined.
Suggested Dilutions	ELISA: 1:10,000 Flow Cytometry: 1:500 WB: 1:1000 IL-17 A antibody has been tested for use in western blotting, Flow Cytometry and ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 23 kDa in size corresponding to the mature mouse IL-17A protein, a non-glycosylated polypeptide chain consisting of 207 amino acids, by western blotting in appropriate cell lysate or extract.

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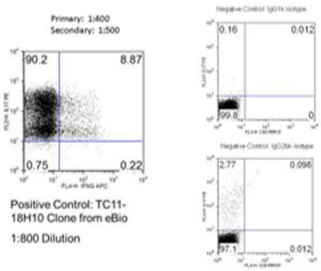
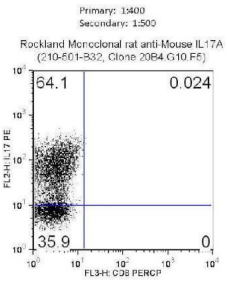
Anti-Mouse IL-17A Monoclonal Antibody (M00421) Images



Boster monoclonal anti-IL17A was used to detect IL-17A and separate Mouse CD4+ Cells by flow cytometry. Mouse CD4+ T cells were isolated from freshly dissected spleen by centrifugation in T cell separation media and selected by magnetic separation. Cells were grown on plates coated with anti-CD3 antibody, and stimulated with: 5 µg/mL anti-CD28, 10 ng/mL IL-1beta, 50 ng/mL mouse IL-6, 1 ng/mL TGFbeta1 and 10 µg/mL anti-mouse IFN gamma over 8-10 days of culture. Cells were incubated for 15-20 minutes with addition of rat anti-mouse CD4 APC at a concentration of 0.125 µg/mL, washed, fixed and permeabilized and incubated with Boster Rat anti-mouse IL-17A monoclonal Antibody (210-501-B32) or controls as shown. Cells were washed, incubated in streptavidin conjugated PE, fixed and analyzed by Flow cytometry. Shown here are results for positive and negative controls.



Boster monoclonal anti-IL-17A was used to detect IL-17A and separate Mouse CD4+ Cells by flow cytometry. Mouse CD4+ T cells were isolated from freshly dissected spleen by centrifugation in T cell separation media and selected by magnetic separation. Cells were grown on plates coated with anti-CD3 antibody, and stimulated with: 5 µg/mL anti-CD28, 10 ng/mL IL-1beta, 50 ng/mL mouse IL-6, 1 ng/mL TGFbeta1 and 10 µg/mL anti-mouse IFN gamma over 8-10 days of culture. Cells were incubated for 15-20 minutes with addition of rat anti-mouse CD4 APC at a concentration of 0.125 µg/mL, washed, fixed and permeabilized and incubated with Boster Rat anti-mouse IL-17A monoclonal Antibody (210-501-B32) or controls as shown. Cells were washed, incubated in streptavidin conjugated PE, fixed and analyzed by Flow cytometry. Shown here are results for Boster's monoclonal anti mouse IL-17A antibody (210-501-B32).

Western Blot showing detection of Mouse IL-17A. 100 ng of Mouse IL-17A was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. After blocking with 1% BSA-TTBS 30 min at 20°C, Anti-Mouse IL-17A (RAT) Antibody was used at 1:1000 in 1% BSA-TTBS over night at 4°C. Peroxidase conjugated Rabbit Anti-mouse secondary antibody was diluted in Blocking Buffer for Fluorescent Western Blotting at 1:40,000 for 30 min at 20°C and imaged using the Bio-Rad VersaDoc® 4000 MP. Band indicates correct 23 kDa molecular weight position expected for Mouse IL-17A.

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