

## 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

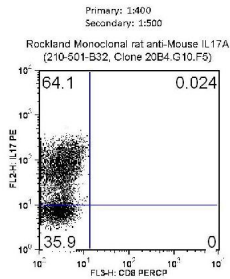
Product Name	Anti-Mouse IL-17A Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Mouse IL-17A Monoclonal Antibody (Catalog # M00421). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Monoclonal Clone: 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

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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:10,000</p> <p>Flow Cytometry: 1:500</p> <p>WB: 1:1000</p>

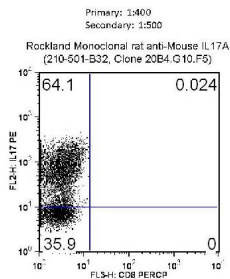
## Anti-Mouse IL-17A Monoclonal Antibody (M00421) Images



Monoclonal anti IL-17A was used to detect IL17A 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 ug/mL anti-CD28, 10 ng/mL IL-1beta, 50 ng/mL mouse IL-6, 1 ng/mL TGFbeta1 and 10 ug/mL anti-mouse IFN over 8-10 days of culture. Cells were incubated for 15-20 minutes with Add rat anti-mouse CD4 APC at a concentration of 0.125 ug/mL, washed, fixed and permeabilized and incubated with rat anti mouse IL-17A monoclonal Antibody (Catalog # M00421) or controls as shown. Cells were washed, incubated in streptavidin conjugated PE, fixed and analyzed by Flow cytometry.



Western blot analysis of Mouse IL-17A using rat anti mouse IL-17A monoclonal Antibody (Catalog # M00421) at 1:1000. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002). Band indicates correct 23 kDa molecular weight position expected for Mouse IL-17A.



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