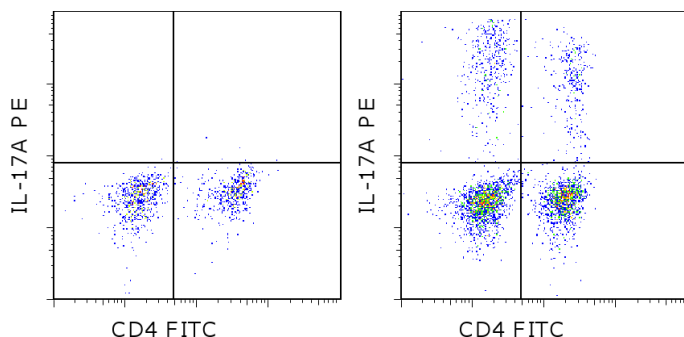


Anti-Mouse/Rat IL-17A PE

Catalog Number: 12-7177

Also known as: Interleukin-17A, Cytotoxic T-lymphocyte-associated antigen 8, CTLA-8

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



Intracellular staining of 10 day-Th17 polarized mouse splenocytes either unstimulated (left) or stimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) (cat. 00-4975) with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.125 ug of Anti-Mouse/Rat IL-17A PE.

Product Information



Contents: Anti-Mouse/Rat IL-17A PE

Catalog Number: 12-7177

Clone: eBio17B7

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial

Contains sodium azide

Description

The eBio17B7 antibody reacts with mouse and rat IL-17A with no recognition of IL-17F. Interleukin-17A (IL-17A) is a CD4+ T cell-derived cytokine that promotes inflammatory responses in cell lines and is elevated in rheumatoid arthritis, asthma, multiple sclerosis, psoriasis, and transplant rejection. The cDNA encoding human IL-17A was isolated from a library of CD4+ T cells; the encoded protein exhibits 72 percent amino acid identity with HVS13, an open reading frame from a T lymphotropic Herpesvirus saimiri, and 63 percent with mouse CTLA-8 (cytotoxic T-lymphocyte associated antigen-8). Human IL-17A exists as glycosylated 20-30 kD homodimers. High levels of IL-17A homodimer are produced by activated peripheral blood CD4+ T-cells. IL-17A enhances expression of the intracellular adhesion molecule-1 (ICAM-1) in human fibroblasts. Human IL-17A also stimulates epithelial, endothelial, or fibroblastic cells to secrete IL-6, IL-8, G-CSF, and PGE2. In the presence of human IL-17A, fibroblasts can sustain the proliferation of CD34+ hematopoietic progenitors and induce maturation into neutrophils. Mouse, rat, and human IL-17A can induce IL-6 secretion in mouse stromal cells, indicating that all homologs can recognize the mouse IL-17A receptor.

IL-23-dependent, IL-17A-producing CD4+ T cells (Th-17 cells) have been identified as a unique subset of Th cells that develops along a pathway that is distinct from the Th1- and Th2- cell differentiation pathways. The hallmark effector molecules of Th1 and Th2 cells, e.g., IFN gamma and IL-4, have each been found to negatively regulate the generation of these Th-17 cells.

Applications Reported

The eBio17B7 antibody has been reported useful for intracellular staining for flow cytometric analysis.

Applications Tested

This eBio17B7 antibody has been tested by intracellular staining and flow cytometric analysis of PMA and Ionomycin-restimulated splenocytes cultured under Th17-polarizing conditions. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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Staining has been successfully done using the Foxp3 buffer system (cat 00-5523).

References

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Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

12-7221 Anti-Mouse IL-22 PE (1H8PWSR)

14-8348 Human TGF beta 1 Recombinant Protein

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

17-7211 Anti-Mouse IL-21 APC (FFA21)

88-7272 Mouse IL-17AF (heterodimer) ELISA Ready-SET-Go!®

88-7370 Mouse/Rat IL-17A ELISPOT Ready-SET-Go!®

88-7371 Mouse IL-17A (homodimer) ELISA Ready-SET-Go!®

88-8411 Mouse Th17 Cytokine Staining Panel

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