

IL-17A Monoclonal Antibody (eBio17B7), PE, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio17B7
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_763582

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	97 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

Product Specific Information

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.

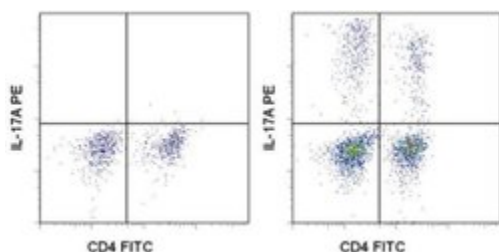
Applications Tested: This eBio17B7 antibody has been tested by intracellular staining and flow cytometric analysis of restimulated, Th17-polarized mouse splenocytes using the Intracellular Fixation and Permeabilization Buffer Set (cat. 88-8824) and protocol. This can be used at less than or equal to 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.

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

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-17A Monoclonal Antibody (eBio17B7), PE, eBioscience™



IL-17A Antibody (12-7177-81) in Flow

Intracellular staining of 10 day-Th17 polarized mouse splenocytes either unstimulated (left) or stimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) (Product # 00-4975-03) (right) with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.125 µg of Anti-Mouse/Rat IL-17A PE using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Viable cells in the lymphocyte gate were used for analysis.

Flow Cytometry (97)

Frontiers in immunology

Limited Foxp3⁺ Regulatory T Cells Response During Acute *Trypanosoma cruzi* Infection Is Required to Allow the Emergence of Robust Parasite-Specific CD8⁺ T Cell Immunity.

"12-7177 was used in Flow cytometry/Cell sorting to study the role of regulatory T cells during *Trypanosoma cruzi* infection."

Authors: Araujo Furlan CL, Tosello Boari J, Rodriguez C, Canale FP, Fiocca Vernengo F, Boccardo S, Beccaria CG, Adoue V, Joffre O, Gruppi A, Montes CL, Acosta Rodriguez EV

Species
Mouse

Dilution
Not Cited

Year
2019

Mediators of inflammation

Interleukin 10 Gene-Modified Bone Marrow-Derived Dendritic Cells Attenuate Liver Fibrosis in Mice by Inducing Regulatory T Cells and Inhibiting the TGF- β /Smad Signaling Pathway.

"12-7177 was used in Flow cytometry/Cell sorting to explore the therapeutic effects and mechanisms of interleukin 10 gene-modified bone marrow-derived dendritic cells on liver fibrosis."

Authors: Xu Y, Tang X, Yang M, Zhang S, Li S, Chen Y, Liu M, Guo Y, Lu M

Species
Mouse

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](#)

Immunofluorescence (1)

PloS one

Anthocyanin Extracted from Black Soybean Seed Coats Prevents Autoimmune Arthritis by Suppressing the Development of Th17 Cells and Synthesis of Proinflammatory Cytokines by Such Cells, via Inhibition of NF- κ B.

"12-7177 was used in Immunofluorescence to investigate the anti-arthritic effects of anthocyanin extracted from black soybean seed coats in both murine and human cells."

Authors: Min HK, Kim SM, Baek SY, Woo JW, Park JS, Cho ML, Lee J, Kwok SK, Kim SW, Park SH

Species
Mouse

Dilution
Not Cited

Year
2016

Immunohistochemistry (1)

PloS one

Anthocyanin Extracted from Black Soybean Seed Coats Prevents Autoimmune Arthritis by Suppressing the Development of Th17 Cells and Synthesis of Proinflammatory Cytokines by Such Cells, via Inhibition of NF- κ B.

"12-7177 was used in Immunofluorescence to investigate the anti-arthritic effects of anthocyanin extracted from black soybean seed coats in both murine and human cells."

Authors: Min HK, Kim SM, Baek SY, Woo JW, Park JS, Cho ML, Lee J, Kwok SK, Kim SW, Park SH

Species
Mouse

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

Misc (2)

ELISA (1)

IHC (P) (1)

FN (1)

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