

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

Product Details	
Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio17B7
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_763581

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	75 Publications
ELISA (ELISA)	-	2 Publications
Functional Assay (FN)	-	1 Publication

## 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:** This eBio17B7 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

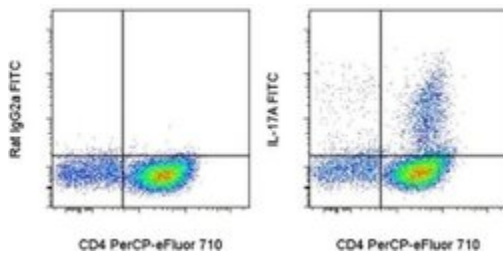
**Applications Tested:** This eBio17B7 antibody has been tested by intracellular staining and flow cytometric analysis of restimulated, Th17-polarized splenocytes using the intracellular Fixation and Permeabilization Buffer Set (cat. 88-8824) and protocol. This can be used at less than or equal to 0.25 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 10<sup>5</sup> to 10<sup>8</sup> 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/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



### IL-17A Antibody (11-7177-81) in Flow

Splenocytes were cultured under Th17-polarizing conditions for 6 days and then restimulated with the Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) for 5 hours. Cells were intracellularly stained with Anti-Mouse CD4 PerCP-eFluor® 710 (Product # 46-0042-82) and 0.125 µg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (left) or 0.125 µg of Anti-Mouse/Rat IL-17A FITC (right) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Viable cells, as determined by Fixable Viability Dye eFluor® 660 (Product # 65-0864-14), in the lymphocyte gate were used for analysis.

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## Immunohistochemistry (5)

International journal of molecular sciences

### Positive Effects of Oral Antibiotic Administration in Murine Chronic Graft-Versus-Host Disease.

"Published figure using IL-17A monoclonal antibody (Product # 11-7177-81) in Immunohistochemistry"

Authors: Sato S, Shimizu E, He J, Ogawa M, Asai K, Yazu H, Rusch R, Yamane M, Yang F, Fukuda S, Kawakami Y, Tsubota K, Ogawa Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Immune network

### GRIM-19 Ameliorates Multiple Sclerosis in a Mouse Model of Experimental Autoimmune Encephalomyelitis with Reciprocal Regulation of IFN/Th1 and IL-17A/Th17 Cells.

"11-7177 was used in Immunohistochemistry to explore whether GRIM-19 ameliorated MS by increasing the levels of inflammatory cytokines and immune cells."

Authors: Moon J, Lee SH, Lee SY, Ryu J, Jhun J, Choi J, Kim GN, Roh S, Park SH, Cho ML

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

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

## Immunohistochemistry (Paraffin) (1)

BMC immunology

### Role of epithelial integrin-linked kinase in promoting intestinal inflammation: effects on CCL2, fibronectin and the T cell repertoire.

"Published figure using IL-17A monoclonal antibody (Product # 11-7177-81) in Immunofluorescence"

Authors: Assi K, Patterson S, Dedhar S, Owen D, Levings M, Salh B

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2011

## Flow Cytometry (75)

Chinese medicine

### Effects of different principles of Traditional Chinese Medicine treatment on TLR7/NF-B signaling pathway in influenza virus infected mice.

"11-7177 was used in Flow cytometry/Cell sorting to show traditional chinese medicines Guizhi-and-Mahuang decoction and Yinqiao powder can provide anti-influenza functions."

Authors: Fu YJ, Yan YQ, Qin HQ, Wu S, Shi SS, Zheng X, Wang PC, Chen XY, Tang XL, Jiang ZY

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2022

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

## More applications with references on thermofisher.com

**ELISA (2)** **FN (1)**

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