

# IL-17A Monoclonal Antibody (eBio64DEC17), eFluor 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Hamster, Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio64DEC17
Conjugate	eFluor® 450
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853643

Applications	Tested	Dilution	Published
ELISA (ELISA)	-		3 Publications
Flow Cytometry (Flow)	✓	5 µL (0.5 µg)/test	11 Publications
Immunofluorescence (IF)	-		4 Publications
Immunohistochemistry (IHC)	-		2 Publications
Radioimmune Assays (RIA)	-		1 Publication

## Product Specific Information

Description: The eBio64DEC17 antibody reacts with human IL-17A. The eBio64DEC17 antibody is a neutralizing antibody. 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-g and IL-4, have each been found to negatively regulate the generation of these Th-17 cells. Intracellular staining by eBio64DEC17 antibody identifies the same cell population as the eBio64CAP17 antibody, as can be seen in co-staining experiments using both antibodies. Click here for link to data {51-7179}.

Applications Reported: This eBio64DEC17 antibody has been reported for intracellular staining followed by flow cytometric analysis.

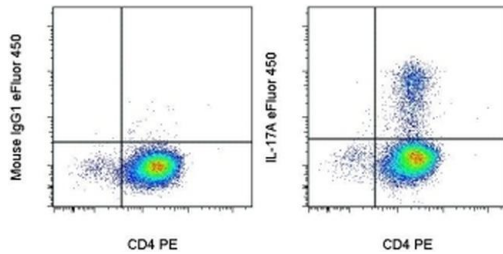
Applications Tested: This eBio64DEC17 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated normal human peripheral blood cells or Th17 polarized cells. This can be used at 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For IL-17A Monoclonal Antibody (eBio64DEC17), eFluor 450, eBioscience™



### IL-17A Antibody (48-7179-42) in Flow

CD4-enriched human peripheral blood cells were polarized under Th17 conditions (with Human IL-23 Recombinant Protein (Product # 14-8239-63) for 6 days. Cells were restimulated with the Cell Stimulation Cocktail plus protein transport inhibitors (Product # 00-4975-03) for 5 hours and then intracellularly stained with Anti-Human CD4 PE (Product # 12-0049-42) and Mouse IgG1 K Isotype Control eFluor® 450 (Product # 12-4714-81) (left) or Anti-Human IL-17A eFluor® 450 (right) using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00).

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 21 References

### ELISA (3)

Frontiers in immunology

#### CD16<sup>+</sup> Monocyte Subset Was Enriched and Functionally Exacerbated in Driving T-Cell Activation and B-Cell Response in Systemic Lupus Erythematosus.

"Published figure using IL-17A monoclonal antibody (Product # 48-7179-42) in ELISA"

Authors: Zhu H,Hu F,Sun X,Zhang X,Zhu L,Liu X,Li X,Xu L,Shi L,Gan Y,Su Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Journal of immunology (Baltimore, Md. : 1950)

#### Cutting Edge: Selective Oral ROCK2 Inhibitor Reduces Clinical Scores in Patients with Psoriasis Vulgaris and Normalizes Skin Pathology via Concurrent Regulation of IL-17 and IL-10.

"Published figure using IL-17A monoclonal antibody (Product # 48-7179-42) in ELISA"

Authors: Zanin-Zhorov A,Weiss JM,Trzeciak A,Chen W,Zhang J,Nyuydzefe MS,Arencibia C,Polimera S,Schueller O,Fuentes-Duculan J,Bonifacio KM,Kunjravia N,Cueto I,Soung J,Fleischmann RM,Kivitz A,Lebwohl M,Nunez M,Woodson J,Smith SL,West RF,Berger M,Krueger JG,Ryan JL,Waksal SD

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

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

### Flow Cytometry (11)

Frontiers in immunology

#### CD16<sup>+</sup> Monocyte Subset Was Enriched and Functionally Exacerbated in Driving T-Cell Activation and B-Cell Response in Systemic Lupus Erythematosus.

"Published figure using IL-17A monoclonal antibody (Product # 48-7179-42) in ELISA"

Authors: Zhu H,Hu F,Sun X,Zhang X,Zhu L,Liu X,Li X,Xu L,Shi L,Gan Y,Su Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Oncology letters

#### Accumulation of T-helper 22 cells, interleukin-22 and myeloid-derived suppressor cells promotes gastric cancer progression in elderly patients.

"Published figure using IL-17A monoclonal antibody (Product # 48-7179-42) in Flow Cytometry"

Authors: Chen X,Wang Y,Wang J,Wen J,Jia X,Wang X,Zhang H

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

### More applications with references on thermofisher.com

**IF (4)**   **IHC (2)**   **RIA (1)**

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