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IL-17A Monoclonal Antibody (eBio64DEC17), PE-Cyanine7, eBioscience™

Size	100 Tests
Species Reactivity	Human
Published Species	Hamster, Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	eBio64DEC17
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11063994

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (0.125 μg)/test	25 Publications
ELISA (ELISA)	-	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 gamma and IL-4, have each been found to negatively regulate the generation of these Th-17 cells.

1

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.

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

Applications Tested: This eBio64DEC17 antibody has been pre-titrated and tested by intracellular stainign and flow cytometric analysis. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

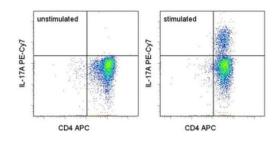
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution () for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-17A Monoclonal Antibody (eBio64DEC17), PE-Cyanine7, eBioscience™



IL-17A Antibody (25-7179-42) in Flow

CD4-enriched human peripheral blood cells were polarized under Th17 conditions (with Human IL-23 Recombinant Protein (Product # 14-8239-63) for 10 days. Cells were restimulated with Protein Transport Inhibitor Cocktail (Product # 00-4980-03) (left) or Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) (right) for 6 hours. Cells were intracellularly stained with Anti-Human CD4 APC (Product # 17-0049-42) and Anti-Human IL-17A PE-Cyanine7 using the Fixation & Permeabilization Buffers (Product # 88-8823-88). Viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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26 References

Flow Cytometry (25)

PloS one	Year 2021
Small molecule allosteric inhibitors of RORt block Th17-dependent	
inflammation and associated gene expression in vivo.	
"Published figure using IL-17A monoclonal antibody (Product # 25-7179-42) in Flow Cytometry"	
Authors: Saenz SA,Local A,Carr T,Shakya A,Koul S,Hu H,Chourb L,Stedman J,Malley J,D'Agostino LA, Shanmugasundaram V,Malona J,Schwartz CE,Beebe L,Clements M,Rajaraman G,Cho J,Jiang L,Dubrovskiy A,Kreilein M,Shimanovich R,Hamann LG,Escoubet L,Ellis JM	
JCI insight	Year
YY1 regulation by miR-124-3p promotes Th17 cell pathogenicity through	2021
interaction with T-bet in rheumatoid arthritis.	
interaction with T-bet in rheumatoid arthritis. "Published figure using IL-17A monoclonal antibody (Product # 25-7179-42) in Flow Cytometry"	

View more Flow references on thermofisher.cn

ELISA (1)

PLoS pathogens	Year
A Quantitative Analysis of Complexity of Human Pathogen-Specific CD4	2016
T Cell Responses in Healthy M. tuberculosis Infected South Africans.	Species
"25-7179 was used in an ELISpot assay to estimate the breadth of T cell responses for the first time in the context of an infection and human population setting."	Human
Authors: Lindestam Arlehamn CS,McKinney DM,Carpenter C,Paul S,Rozot V,Makgotlho E,Gregg Y,van Rooyen M, Ernst JD,Hatherill M,Hanekom WA,Peters B,Scriba TJ,Sette A	

More applications with references on thermofisher.cn

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