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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Rat, Hamster, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio64DEC17
Conjugate	FITC
Excitation/Emission Max	498/517 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_10805390

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	36 Publications
ELISA (ELISA)	-	5 Publications
Neutralization (Neu)	-	1 Publication
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 gamma 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.

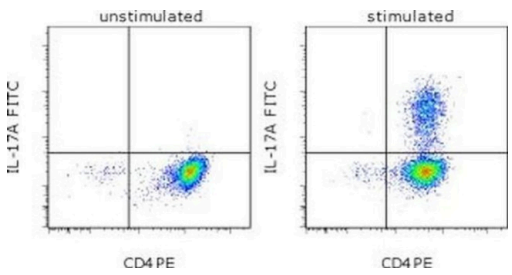
Applications Reported: This eBio64DEC17 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This eBio64DEC17 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (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 10^5 to 10^8 cells/test.

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

Filtration: 0.2 µm post-manufacturing filtered.

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



IL-17A Antibody (11-7179-42) 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 stained Anti-Human CD4 PE (Product # 12-0047-42) and Anti-Human IL-17A FITC using the Fixation & Permeabilization Buffers (Product # 88-8824-00). Viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

View more figures on thermofisher.com

51 References

Immunohistochemistry (3)

International journal of molecular medicine

Year
2016

Altered expression of miR-92a correlates with Th17 cell frequency in patients with primary biliary cirrhosis.

"Published figure using IL-17A monoclonal antibody (Product # 11-7179-42) in Immunofluorescence"

Authors: Liang DY,Hou YQ,Luo LJ,Ao L

The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society

Year
2009

A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates.

"Published figure using IL-17A monoclonal antibody (Product # 11-7179-42) in Immunohistochemistry"

Authors: Kap YS,van Meurs M,van Driel N,Koopman G,Melief MJ,Brok HP,Laman JD,'t Hart BA

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (1)

Frontiers in immunology

Year
2022

Neutrophil-Derived IL-17 Promotes Ventilator-Induced Lung Injury *via* p38 MAPK/MCP-1 Pathway Activation.

"Published figure using IL-17A monoclonal antibody (Product # 11-7179-42) in Immunohistochemistry (Paraffin)"

Authors: Liao X,Zhang W,Dai H,Jing R,Ye M,Ge W,Pei S,Pan L

Immunocytochemistry (4)

International journal of molecular medicine

Year
2016

Altered expression of miR-92a correlates with Th17 cell frequency in patients with primary biliary cirrhosis.

"Published figure using IL-17A monoclonal antibody (Product # 11-7179-42) in Immunofluorescence"

Authors: Liang DY,Hou YQ,Luo LJ,Ao L

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Flow (36) **ELISA (5)** **Neu (1)** **RIA (1)**