

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

Product Details

Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio17B7
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_763570

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	-	74 Publications
ELISA (ELISA)	0.5-2 µg/mL	15 Publications
Functional Assay (FN)	-	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 ELISA/ELISPOT detection.

Applications Tested: The biotinylated eBio17B7 antibody has been tested as the detection antibody in a sandwich ELISA (and ELISPOT assay) for analysis of mouse IL-17A in combination with the purified eBio17CK15A5 (14-7175) antibody for capture and recombinant mouse IL-17A (14-8171) as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8 pg/mL should be included in each ELISA plate.

Filtration: 0.2 µm post-manufacturing filtered.

📖 97 References

Immunohistochemistry (5)

<p>Mediators of inflammation</p> <p>The Severity of CVB3-Induced Myocarditis Can Be Improved by Blocking the Orchestration of NLRP3 and Th17 in Balb/c Mice.</p> <p>"Published figure using IL-17A monoclonal antibody (Product # 13-7177-81) in Immunohistochemistry"</p> <p>Authors: Chen J,Yang F,Shi S,Liu X,Qin F,Wei X,Huang Y,Liang W,Miao L</p>	<p>Year</p> <p>2021</p>
<p>International journal of molecular sciences</p> <p>Positive Effects of Oral Antibiotic Administration in Murine Chronic Graft-Versus-Host Disease.</p> <p>"Published figure using IL-17A monoclonal antibody (Product # 13-7177-81) in Immunohistochemistry"</p> <p>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</p>	<p>Year</p> <p>2021</p>

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

Immunohistochemistry (Paraffin) (1)

<p>BMC immunology</p> <p>Role of epithelial integrin-linked kinase in promoting intestinal inflammation: effects on CCL2, fibronectin and the T cell repertoire.</p> <p>Authors: Assi K,Patterson S,Dedhar S,Owen D,Levings M,Salh B</p>	<p>Year</p> <p>2011</p>
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Flow Cytometry (74)

<p>Therapeutic advances in chronic disease</p> <p>Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.</p> <p>"Published figure using IL-17A monoclonal antibody (Product # 13-7177-81) in Flow Cytometry"</p> <p>Authors: Pfeil J,Simonetti M,Lauer U,von Thülen B,Durek P,Poulsen C,Pawlowska J,Kröger M,Krähmer R,Leenders F, Hoffmann U,Hamann A</p>	<p>Year</p> <p>2023</p>
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More applications with references on thermofisher.cn

- ELISA (15)
- FN (2)

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