

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

Catalog Number 14-7179-80

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1, kappa	Published species	Rat, Non-human primate, Hamster, Bovine, Sheep, Human, Mouse, Not Applicable, Rhesus monkey
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution *
Clone	eBio64DEC17	Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Flow Cytometry (Flow)	See 21 publications below
Concentration	0.5 mg/mL	Immunofluorescence (IF)	See 1 publications below
Purification	Affinity chromatography	Immunohistochemistry (Frozen) (IHC (F))	See 1 publications below
Storage buffer	PBS, pH 7.2	Neutralization (Neu)	See 1 publications below
Contains	0.09% sodium azide		
Storage Conditions	4° C		

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

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 immunohistology staining and ELISA. Applications Tested: This eBio64DEC17 antibody has been tested by ELISA. Purity: Greater than 90%, as determined by SDS-PAGE. Aggregation: Less than 10%, as determined by HPLC. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

Interleukin-17A (IL-17A, CTLA-8) 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. IL-17A is a 32 kDa long, disulfide-linked homodimer consisting of 136 amino acids that is a member of a six-species family of proteins (IL-17A-17F) and signals through the IL-17 receptor (IL-17R/CDw217). High levels of IL-17A homodimer are produced by activated peripheral blood CD4+ T-cells, and IL-17A also enhances expression of the intracellular adhesion molecule-1 (ICAM-1) in human fibroblasts. In particular, 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 receptor. IL-17A regulates the activities of NF-kappa B and mitogen-activated protein kinases, stimulates the expression of IL-6 and cyclooxygenase-2 (PTGS2/COX-2), and enhances the production of nitric oxide (NO).

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21 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to establish a novel role for skin-resident T cells in the UVR-associated DNA repair response and underscore the importance of skin-resident T cells to overall skin regeneration. Journal of immunology (Baltimore, Md. : 1950) (Jun 2014; 192: 5695) "Skin-resident T cells sense ultraviolet radiation-induced injury and contribute to DNA repair." Author(s):MacLeod AS,Rudolph R,Corriden R,Ye I,Garijo O,Havran WL PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1303297
Human / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to suggest that penile inflammation can increase HIV susceptibility and can be reduced by circumcision. PLoS pathogens (Nov 2016; 12: null) "Chemokine Levels in the Penile Coronal Sulcus Correlate with HIV-1 Acquisition and Are Reduced by Male Circumcision in Rakai, Uganda." Author(s):Prodger JL,Gray RH,Shannon B,Shahabi K,Kong X,Grabowski K,Kigozi G,Nalugoda F,Serwadda D,Wawer MJ,Reynolds SJ,Liu CM,Tobian AA,Kaul R PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1006025
Human / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to demonstrate the consequences for mice with mutations in CTLA4, an essential negative regulator of immune responses. Nature medicine (Dec 2014; 20: 1410) "Autosomal dominant immune dysregulation syndrome in humans with CTLA4 mutations." Author(s):Schubert D,Bode C,Kenefeck R,Hou TZ,Wing JB,Kennedy A,Bulashevskaya A,Petersen BS,Schäffer AA,Grüning BA,Unger S,Frede N,Baumann U,Witte T,Schmidt RE,Dueckers G,Niehues T,Seneviratne S,Kanariou M,Speckmann C,Ehl S,Rensing-Ehl A,Warnatz K,Rakhmanov M,Thimme R,Hasselblatt P,Emmerich F,Cathomen T,Backofen R,Fisch P,Seidl M,May A,Schmitt-Graeff A,Ikemizu S,Salzer U,Franke A,Sakaguchi S,Walker LSK,Sansom DM,Grimbacher B PubMed Article URL: http://dx.doi.org/10.1038/nm.3746
Human / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to investigate the role of CD40L in CD8+ T cells, showing that expression permits CD8+ T cells to execute immunologic helper functions. Blood (Jul 2013; 122: 405) "CD40L expression permits CD8+ T cells to execute immunologic helper functions." Author(s):Frentsch M,Stark R,Matzmohr N,Meier S,Durlanik S,Schulz AR,Stervbo U,Jürchott K,Gebhardt F,Heine G,Reuter MA,Betts MR,Busch D,Thiel A PubMed Article URL: http://dx.doi.org/10.1182/blood-2013-02-483586
Mouse / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to investigate the status and potential role of iNKT17 in type 1 diabetes. PloS one (Jan 2015; 9: null) "Potential role of IL-17-producing iNKT cells in type 1 diabetes." Author(s):Li S,Joseph C,Becourt C,Klibi J,Luce S,Dubois-Laforgue D,Larger E,Boitard C,Benlagha K PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0096151
Human / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to investigate whether monocyte control of T cell polarisation differs between alloimmunised and non-alloimmunised sickle cell disease patients. Journal of immunology (Baltimore, Md. : 1950) (Jul 2014; 193: 102) "Hemin controls T cell polarization in sickle cell alloimmunization." Author(s):Zhong H,Bao W,Friedman D,Yazdanbakhsh K PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1400105
Human / Not Cited	14-7179 was used in Flow cytometry/Cell sorting to suggest a direct link between invading pathogens, microbe-responsive gammadelta T cells, and monocytes in the inflammatory infiltrate, generating specific immunity. PLoS pathogens (Feb 2009; 5: null) "A rapid crosstalk of human gammadelta T cells and monocytes drives the acute inflammation in bacterial infections." Author(s):Eberl M,Roberts GW,Meuter S,Williams JD,Topley N,Moser B PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1000308

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14717982 was used in flow cytometry to assess the protective immunological events induced by vaccination with Leishmune in dogs

Veterinary parasitology (Apr 2016; 220: 33)

"Vaccination against canine leishmaniosis increases the phagocytic activity, nitric oxide production and expression of cell activation/migration molecules in neutrophils and monocytes."

Author(s):Moreira ML, Costa-Pereira C, Alves ML, Marteleto BH, Ribeiro VM, Peruhype-Magalhães V, Giunchetti RC, Martins-Filho OA, Araújo MS

PubMed Article URL:<http://dx.doi.org/10.1016/j.vetpar.2016.02.009>

14-7179 was used in Flow cytometry/Cell sorting to suggest that T cells survey skin and sites of inflammation and infection, entering and leaving via independent pathways.

Veterinary immunology and immunopathology (Sep 2013; 155: 87)

"Ovine skin-recirculating T cells express IFN- and IL-17 and exit tissue independently of CCR7."

Author(s):Geherin SA, Lee MH, Wilson RP, Debes GF

PubMed Article URL:<http://dx.doi.org/10.1016/j.vetimm.2013.06.008>

14-7179 was used in Flow cytometry/Cell sorting to show that HESN foreskins had elevated -defensins and HIV-neutralizing IgAs.

Mucosal immunology (May 2014; 7: 634)

"Immune correlates of HIV exposure without infection in foreskins of men from Rakai, Uganda."

Author(s):Prodger JL, Hirbod T, Kigozi G, Nalugoda F, Reynolds SJ, Galiwango R, Shahabi K, Serwadda D, Wawer MJ, Gray RH, Kaul R

PubMed Article URL:<http://dx.doi.org/10.1038/mi.2013.83>

14-7179 was used in Flow cytometry/Cell sorting to reveal the marked accumulation and unique phenotype of CMV-specific CD4+ T cells.

PLoS pathogens (Sep 2016; 12: null)

"Cytomegalovirus Infection Leads to Development of High Frequencies of Cytotoxic Virus-Specific CD4+ T Cells Targeted to Vascular Endothelium."

Author(s):Pachnio A, Ciaurriz M, Begum J, Lal N, Zuo J, Beggs A, Moss P

PubMed Article URL:<http://dx.doi.org/10.1371/journal.ppat.1005832>

14-7179 was used in Flow cytometry/Cell sorting to determine that therapeutic modulation of Akt activity could suppress chronic inflammatory processes in children with lupus.

Journal of immunology (Baltimore, Md. : 1950) (Nov 2014; 193: 4895)

"Akt-dependent enhanced migratory capacity of Th17 cells from children with lupus nephritis."

Author(s):Kshirsagar S, Riedl M, Billing H, Tönshoff B, Thangavadivel S, Steuber C, Staude H, Wechselberger G, Edelbauer M

PubMed Article URL:<http://dx.doi.org/10.4049/jimmunol.1400044>

14-7179 was used in Flow cytometry/Cell sorting to indicate that the antigen-specific WBA, and specifically IL-17A and IFN- production by circulating CD4+ cells, can be used as a predictor of mammary hypersensitivity to protein antigens.

PLoS one (May 2016; 10: null)

"Antigen-Specific Mammary Inflammation Depends on the Production of IL-17A and IFN- by Bovine CD4+ T Lymphocytes."

Author(s):Rainard P, Cunha P, Ledresseur M, Staub C, Touzé JL, Kempf F, Gilbert FB, Foucras G

PubMed Article URL:<http://dx.doi.org/10.1371/journal.pone.0137755>

14-7179 was used in Flow cytometry/Cell sorting to explore the mechanism of action in mice with collagen-induced arthritis.

Arthritis and rheumatism (Aug 2011; 63: 2289)

"Local expression of interleukin-27 ameliorates collagen-induced arthritis."

Author(s):Pickens SR, Chamberlain ND, Volin MV, Mandelin AM, Agrawal H, Matsui M, Yoshimoto T, Shahrara S

PubMed Article URL:<http://dx.doi.org/10.1002/art.30324>

14-7179 was used in Flow cytometry/Cell sorting to investigate the dynamics and mechanisms of T cell exit from inflamed tissues, showing that requirements change during the course of inflammation.

Journal of immunology (Baltimore, Md. : 1950) (Oct 2010; 185: 4873)

"Chemoattractant receptors and lymphocyte egress from extralymphoid tissue: changing requirements during the course of inflammation."

Author(s):Brown MN, Fintushel SR, Lee MH, Jennrich S, Geherin SA, Hay JB, Butcher EC, Debes GF

PubMed Article URL:<http://dx.doi.org/10.4049/jimmunol.1000676>

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	14-7179 was used in Flow cytometry/Cell sorting to characterise the anatomical distribution, phenotype, and functional quality of Tc17 and Th17 cells in SIV- and SIV+ rhesus macaques.
Rhesus monkey / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (Jan 2011; 186: 745) "Loss of IL-17-producing CD8 T cells during late chronic stage of pathogenic simian immunodeficiency virus infection." Author(s):Nigam P,Kwa S,Velu V,Amara RR PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1002807
	14-7179 was used in Flow cytometry/Cell sorting to investigate how Th17 and Tregs interact under chronic inflammatory conditions.
Human / Not Cited	Gastroenterology (Mar 2011; 140: 957) "Characterization of interleukin-17-producing regulatory T cells in inflamed intestinal mucosa from patients with inflammatory bowel diseases." Author(s):Hovhannisyann Z,Treatman J,Littman DR,Mayer L PubMed Article URL: http://dx.doi.org/10.1053/j.gastro.2010.12.002
	14-7179 was used in Flow cytometry/Cell sorting to investigate whether pregnancy-related changes in disease activity were associated with changes in the proportion and function of T cells.
Human / Not Cited	Arthritis research and therapy (Jan 2016; 18: null) "Reduced pro-inflammatory profile of T cells in pregnant patients with rheumatoid arthritis." Author(s):Tham M,Schlör GR,Yerly D,Mueller C,Surbek D,Villiger PM,Förger F PubMed Article URL: http://dx.doi.org/10.1186/s13075-016-0925-1
	14-7179 was used in Flow cytometry/Cell sorting to demonstrate that coevolution with SIV has, in several cases, involved downregulation of receptors for the virus by otherwise-susceptible host target cells.
Non-human primate / Not Cited	Journal of virology (Sep 2011; 85: 8702) "CD4-like immunological function by CD4- T cells in multiple natural hosts of simian immunodeficiency virus." Author(s):Vinton C,Klatt NR,Harris LD,Briant JA,Sanders-Beer BE,Herbert R,Woodward R,Silvestri G,Pandrea I,Apetrei C,Hirsch VM,Brenchley JM PubMed Article URL: http://dx.doi.org/10.1128/JVI.00332-11
Rhesus monkey / Not Cited	
	14-7179 was used in Flow cytometry/Cell sorting to identify a novel human T-cell subset with an unorthodox, multifunctional Th2 like phenotype, involved in the human immune response to mycobacteria.
Human / Not Cited	PLoS pathogens (Mar 2015; 11: null) "Human CD8+ T-cells recognizing peptides from Mycobacterium tuberculosis (Mtb) presented by HLA-E have an unorthodox Th2-like, multifunctional, Mtb inhibitory phenotype and represent a novel human T-cell subset." Author(s):van Meijgaarden KE,Haks MC,Caccamo N,Dieli F,Ottenhoff TH,Joosten SA PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1004671
	14-7179 was used in Flow cytometry/Cell sorting to demonstrate a role of the blood-brain barrier in the recruitment of effector memory CD8(+) T lymphocytes to the CNS compartment.
Human / Not Cited	Brain : a journal of neurology (Dec 2011; 134: 3560) "Central nervous system recruitment of effector memory CD8+ T lymphocytes during neuroinflammation is dependent on 4 integrin." Author(s):Ifergan I,Kebir H,Alvarez JI,Marceau G,Bernard M,Bourbonnière L,Poirier J,Duquette P,Talbot PJ,Arbour N,Prat A PubMed Article URL: http://dx.doi.org/10.1093/brain/awr268

1 Immunofluorescence References

Species / Dilution	Summary
	14-7179 was used in Immunofluorescence to analyse human kidney biopsies of active necrotising and crescentic ANCA-associated glomerulonephritis.
Human / Not Cited	American journal of physiology. Renal physiology (Jun 2012; 302: F1663) "Renal IL-17 expression in human ANCA-associated glomerulonephritis." Author(s):Velden J,Paust HJ,Hoxha E,Turner JE,Steinmetz OM,Wolf G,Jabs WJ,Özcan F,Beige J,Heering PJ,Schröder S,Kneißler U,Disteldorf E,Mittrücker HW,Stahl RA,Helmchen U,Panzer U PubMed Article URL: http://dx.doi.org/10.1152/ajprenal.00683.2011

1 Immunohistochemistry (Frozen) References

Species / Dilution	Summary
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14-7179 was used in Immunohistochemistry on frozen tissues to investigate the mechanisms of cell-mediated immunity in antisyphilitic host defence.

Human / Not Cited

The American journal of pathology (Nov 2010; 177: 2421)

"Host defense mechanisms in secondary syphilitic lesions: a role for IFN-gamma-/IL-17-producing CD8+ T cells?"

Author(s):Stary G,Klein I,Brüggen MC,Kohlhofer S,Brunner PM,Spazierer D,Müllauer L,Petzelbauer P,Stingl G
PubMed Article URL:<http://dx.doi.org/10.2353/ajpath.2010.100277>

1 Neutralization References

Species / Dilution

Summary

14-7179 was used in Neutralization experiments to test whether Tregs from tolerant rats could suppress Th17-mediated rejection in the syngeneic model of lung transplantation.

Rat / Not Cited

Transplantation (Dec 2009; 88: 1341)

"Transfer of tolerance to collagen type V suppresses T-helper-cell-17 lymphocyte-mediated acute lung transplant rejection."

Author(s):Braun RK,Molitor-Dart M,Wigfield C,Xiang Z,Fain SB,Jankowska-Gan E,Seroogy CM,Burlingham WJ,Wilkes DS, Brand DD,Torrealba J,Love RB
PubMed Article URL:<http://dx.doi.org/10.1097/TP.0b013e3181bcde7b>

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