Human IL-17/IL-17A Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 41809

Catalog Number: IC317G

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-17 in direct ELISAs. In direct ELISAs, approximately 12% cross-reactivity with recombinant canine IL-17 is observed and 25%-50% reactivity with recombinant human (rh) IL-17A/IL-17F heterodimer is observed. No cross-reactivity with recombinant mouse IL-17, rhIL-17B, rhIL-17C, rhIL-17D, rhIL-17E, or rhIL-17F is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 41809
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human IL-17 Ile20-Ala155 Accession # Q16552
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

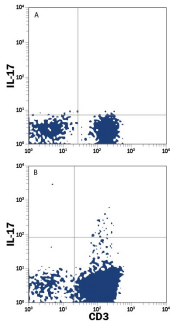
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	5 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of IL-17/IL-17A in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) either (A) untreated or (B) stimulated to induce Th17 cells were stained with Mouse Anti-Human IL-17/IL-17A Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC317G) and Mouse Anti-Human CD3ε APC-conjugated Monoclonal Antibody (Catalog # FAB100A). Quadrant markers were set based on control antibody staining (Catalog # IC0041G). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Interleukin 17, also known as IL-17A and CTLA-8, is a 20-22 kDa, secreted pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. Human IL-17 cDNA encodes a 155 amino acid (aa) residue precursor protein with a 23 amino acid residue signal peptide that is cleaved to yield the 132 aa residue mature IL-17. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers. IL-17 is also known to form a heterodimer with 20-24 kDa IL-17F. At the amino acid level, hIL-17 shows 62% aa sequence identity with mouse IL-17. The receptor for the IL-17A homodimer and IL-17A:F heterodimer is reported to be a combination of IL-17 RA and IL-17 RC, with a possible contribution by IL-17 RD. The expression of IL-17 is widespread, and found associated with mast cells, LTi cells, B cells, γδ T cells, $CD4^+$ Th17 cells, iNKT cells, neutrophils, intestinal Paneth cells, Type I ILCs and $CD8^+$ T_c17 cells. IL-17 exhibits multiple biological activities on a variety of cells, including: the induction of IL-6 and IL-8 production by fibroblasts, the enhancement of surface expression of ICAM-1 on fibroblasts, activation of NF-κB and costimulation of T cell proliferation, the preservation of intestinal mucosal integrity via claudin synthesis, and the induction of antimicrobial peptides by epithelium.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

Human IL-17/IL-17A
Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 41809

Catalog Number: IC317G
100 TESTS

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956