Mouse IL-17/IL-17A PerCP-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: IC421C
100 Tests

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-17 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human IL-17A and recombinant mouse (rm) IL-17F is observed and less than 1% cross-reactivity with rmIL-17B, rmIL-17C, rmIL-17D, and rmIL-17E is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse IL-17 Thr22-Ala158 Accession # Q62386
Conjugate	PerCP (Peridinin-chlorophyll Protein Complex) Excitation Wavelength: 482 and 564 nm Emission Wavelength: 675 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.

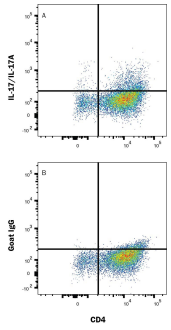
APPLICATIONS

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	10 µL/10^6 cells	See Below

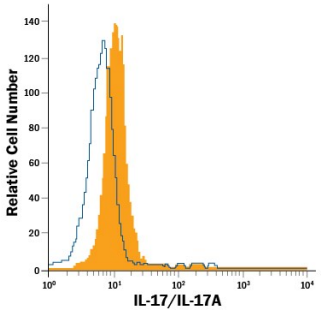
DATA

Intracellular Staining by Flow Cytometry



Detection of IL-17/IL-17A in Mouse splenocytes by Flow Cytometry. Mouse splenocytes differentiated to Th17 cells with plate-bound Rat anti-mouse CD3 Monoclonal antibody (10 µg/ml; Catalog # MAB484), Goat anti-mouse CD28 Polyclonal Antibody (5 µg/mL; Catalog # AF483), TGF-β (10 ng/mL; Catalog # 100-B), Recombinant Mouse IL-23 (20 ng/mL; Catalog # 1887-ML), Recombinant Mouse IL-6 (40 ng/mL; Catalog # 406-ML), and Recombinant MouseIL-1β (10 ng/mL; Catalog # 401-ML) for 6 days were stained with (A) Goat Anti-Mouse IL-17/IL-17A PerCP-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC421C) or (B) control antibody (Catalog # IC108C) and Rat anti-Mouse CD4 PE-conjugated Monoclonal Antibody (Catalog # FAB554P). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3/Transcription Factor Fixation & Perm Kit (Catalog # FC012). Staining was performed using our Staining Intracellular Molecules protocol.

Intracellular Staining by Flow Cytometry



Detection of IL-17/IL-17A in EL-4 Mouse Cell Line by Flow Cytometry. LPS activated EL-4 mouse lymphoblast cell line was stained with Goat Anti-Mouse IL-17/IL-17A PerCP-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC421C, filled histogram) or isotype control antibody (Catalog # Catalog # IC108C, open histogram). Cells were fixed with Flow Cytometry Fixation Buffer (Catalog # Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # 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, was initially identified as a 17 kDa, secreted T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. Mouse IL-17 cDNA encodes a 158 amino acid (aa) residue precursor protein with a 25 amino acid residue signal peptide that is cleaved to yield the 133 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 IL-17F. At the amino acid level, mIL-17 shows 62% and 87% aa sequence identity with human and rat IL-17, respectively. The receptor for the IL-17A homodimer and IL-17A:F heterodimer is reported to be a combinationof 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 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 in fibroblasts, the enhancement of surface expression of ICAM-1 in fibroblasts, activation of NF-κB and costimulation of T cell proliferation, the preservation of intestinal mucosal integrity, and the induction of antimicrobial peptides by epithelium.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449