

DESCRIPTION

| | |
|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human IL-17/IL-17A in direct ELISAs. In direct ELISAs, approximately 12% cross-reactivity with recombinant canine IL-17/IL-17A 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/IL-17A, 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 ascites |
| Immunogen | <i>E. coli</i> -derived recombinant human IL-17/IL-17A Ile20-Ala155 Accession # Q16552 |
| Conjugate | Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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. |

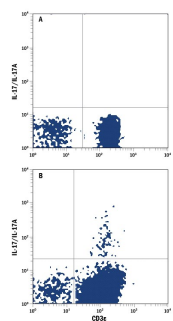
APPLICATIONS

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 μ L/10 ⁶ cells | See Below |

DATA

Intracellular Staining by Flow Cytometry



Detection of IL-17/IL-17A in Th17-differentiated Human CD4⁺ PBMCs by Flow Cytometry. Human CD4⁺ peripheral blood mononuclear cells (PBMCs) either (A) untreated or (B) treated with 50 ng/mL PMA, 200 ng/mL Calcium Ionomycin, 200 ng/mL LPS, 20 ng/mL Recombinant Human IL-23 (Catalog # 1290-IL), and 40 ng/mL Recombinant Human IL-6 (Catalog # 206-IL) overnight to induce Th17 development were stained with Mouse Anti-Human IL-17/IL-17A PE-conjugated Monoclonal Antibody (Catalog # IC317P) and Mouse Anti-Human CD3 ϵ APC-conjugated Monoclonal Antibody (Catalog # FAB100A). Quadrant markers were set based on control antibody staining (Catalog # IC0041P). 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

IL-17/IL-17A is a pro-inflammatory cytokine secreted by activated T cells. It is the prototype member of the IL-17 family that also includes IL-17B, C, D, E, and F.