

## PE anti-human IL-17A

**Catalog # /** 3161530 / 100 tests  
**Size:** 3161525 / 25 tests

**Clone:** BL168

**Isotype:** Mouse IgG1,  $\kappa$

**Immunogen:** Recombinant full length human IL-17A

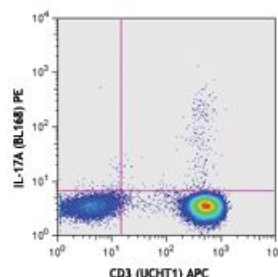
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Workshop Number:** HCDM listed

**Concentration:** Lot-specific

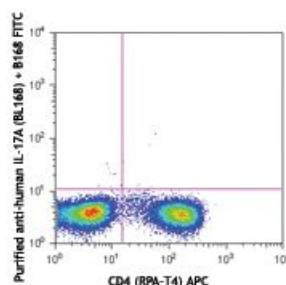


PMA (50 ng/ml) + ionomycin (1  $\mu$ g/ml)-stimulated (6 hours + monensin, 2  $\mu$ M) human peripheral blood lymphocytes were fixed and permeabilized and then stained with CD3 (UCHT1) APC and anti-human IL-17A (BL168) PE.

## Applications:

**Applications:** Intracellular Staining for Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



PMA (50 ng/ml) + ionomycin (1  $\mu$ g/ml)-stimulated (6 hours + monensin, 2  $\mu$ M) human peripheral blood lymphocytes were intracellularly stained with CD4 (RPA-T4) APC and anti-IL-17A (BL168) FITC.

**Description:** IL-17A is the founding member of the IL-17 family, a group of six structurally related pro-inflammatory cytokines. IL-17A, secreted by activated CD4<sup>+</sup> Th17 cell subpopulation, elicits multiple biological activities on a variety of cells including: the induction of IL-6, IL-8, G-CSF, and PGE2 production in epithelial, endothelial or fibroblasts; the enhancement of surface expression of ICAM-1 in fibroblasts; activation of NF-κB and costimulation of T cell proliferation. Recent studies demonstrated that, in mice, activated IL-17-secreting CD4<sup>+</sup> helper T cells (Th17 cells) mediate an autoimmune arthritis that clinically and immunologically resembles rheumatoid arthritis (RA). Human IL-17A shows 63%, 63%, and 72% amino acid sequence identity to rat IL-17A, mouse IL-17A, and a protein encoded by the ORF13 gene of herpesvirus Saimiri (HVS), respectively.

**Antigen**  
**References:**

1. Hirota K, *et al.* 2007. *J. Exp. Med.* 204:41.
2. Furuzawa-Carballada J, *et al.* 2007. *Autoimmun. Rev.* 6:169.
3. Witowski J, *et al.* 2007. *Kidney Int.* 71:514.
4. Gaffen SL, *et al.* 2006. *Vitam. Horm.* 74:255.
5. Hymowitz S, *et al.* 2001. *EMBO J.* 20:5332.